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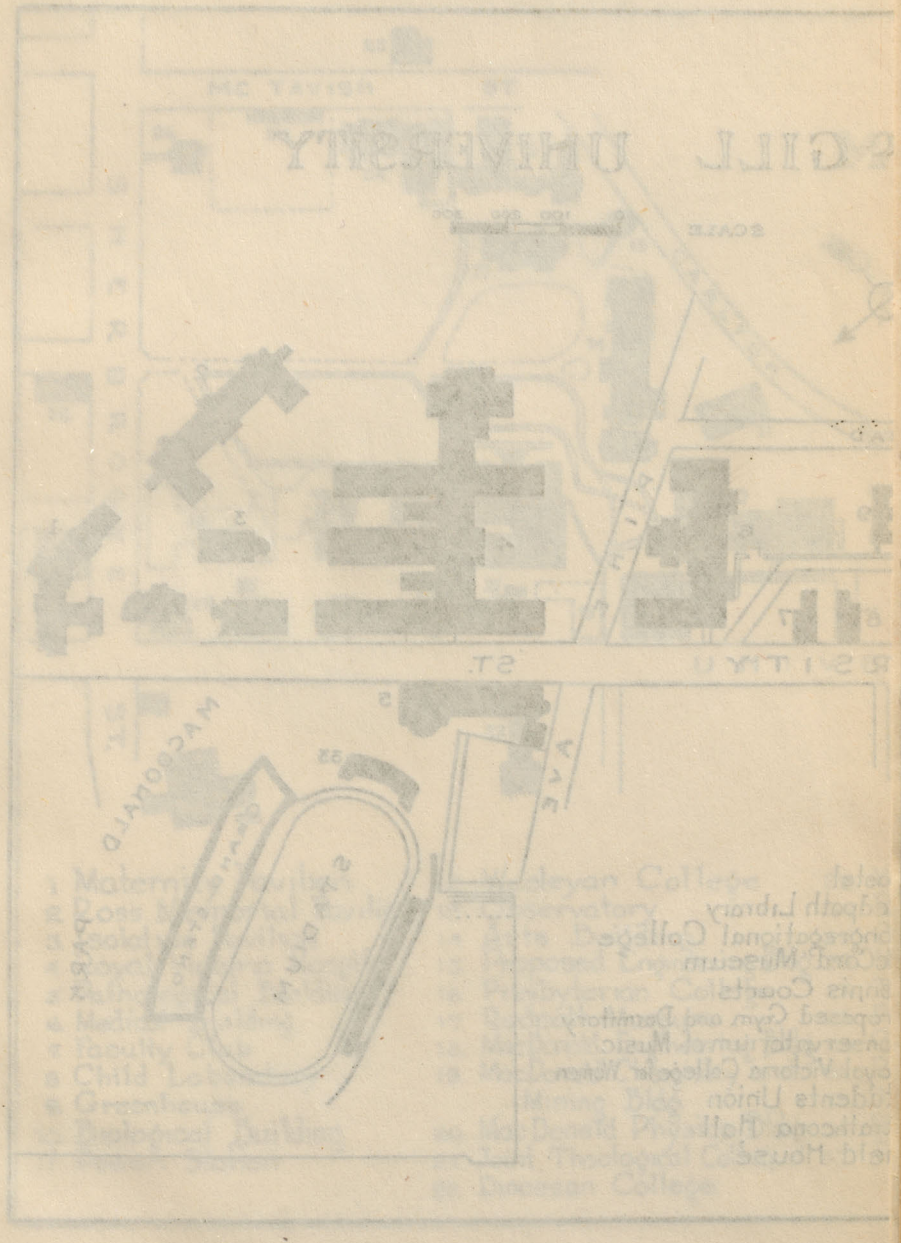
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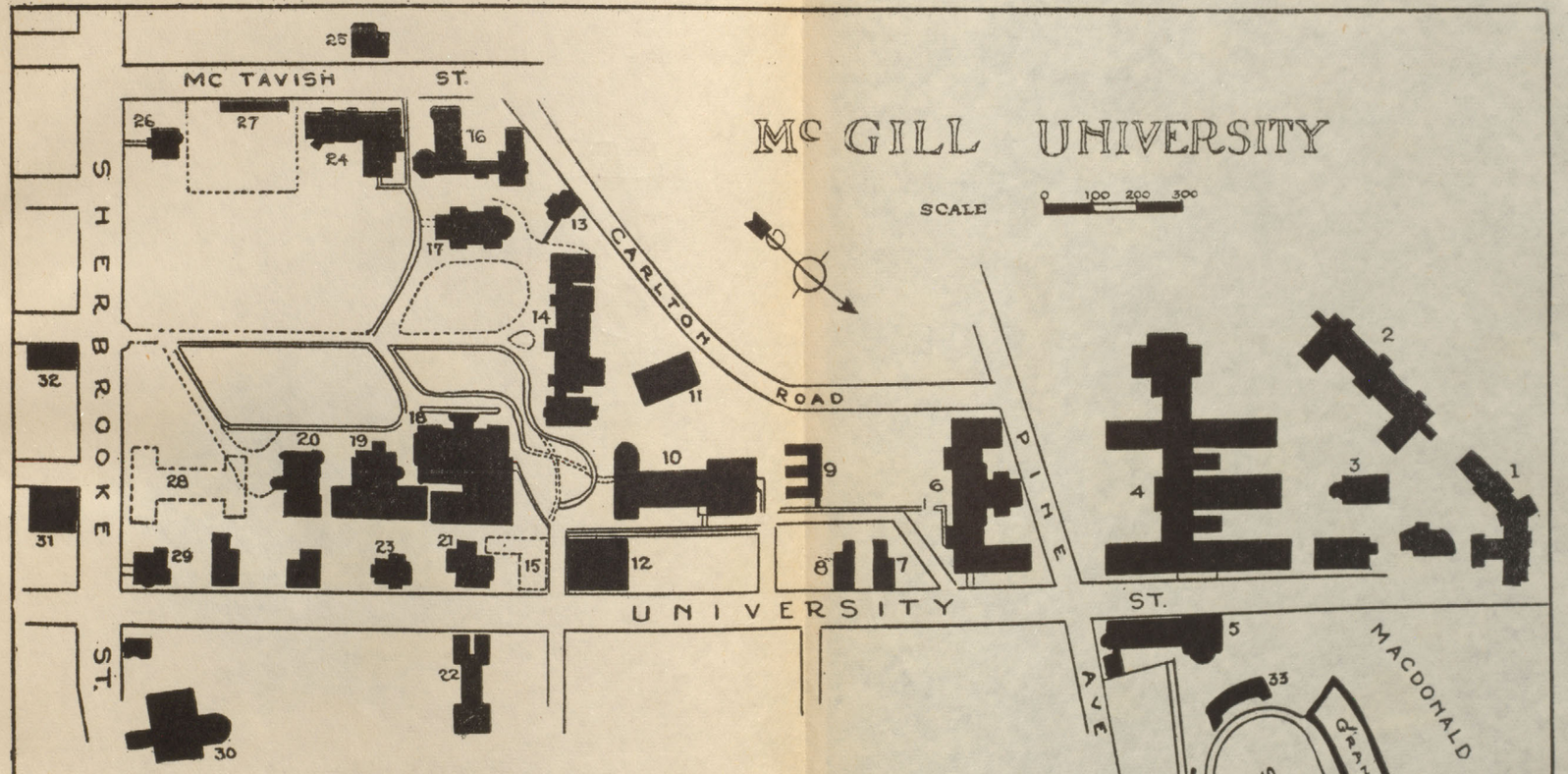
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MONTREAL

FOUNDED UNDER BEQUEST OF THE HON. JAMES McGILL;
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IN 1821; AND REORGANIZED UNDER AN
AMENDED CHARTER IN 1852

CALENDAR

FOR THE SESSION 1928-1929

MONTREAL:
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ACADEMIC YEAR, 1928-29

SEPTEMBER, 1928

1	Saturday	
2	**SUNDAY**	
3	Monday	Last day for receiving applications for the Matriculation Examination.
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	
9	**SUNDAY**	
10	Monday	Register opens for Students in Physical Education.
11	Tuesday	
12	Wednesday	Register opens for Students in Medicine and Dentistry. Hostel opens.
13	Thursday	Matriculation Examination begins. Exhibition, Scholarship and Supplemental Examinations in Arts. School of Physical Education opens.
14	Friday	
15	Saturday	
16	**SUNDAY**	
17	Monday	
18	Tuesday	
19	Wednesday	Lectures begin in Medicine and Dentistry.
20	Thursday	
21	Friday	
22	Saturday	
23	**SUNDAY**	
24	Monday	Register opens for Students in Law, the School for Social Workers, First Year Applied Science and others in Applied Science who have no conditions. Conservatorium of Music opens.
25	Tuesday	
26	Wednesday	
27	Thursday	Registration of Students in Arts.
28	Friday	Registration of Students in Arts and Applied Science.
29	Saturday	Registration of Students in Arts.
30	**SUNDAY**	

OCTOBER, 1928

1	Monday	Lectures begin in Arts, Applied Science, Law, and the Schools for Social Workers and Graduate Nurses. Meeting of the Faculty of Applied Science.
2	Tuesday	Library Committee Meeting.
3	Wednesday	
4	Thursday	Meeting of McCord Museum Committee.
5	Friday	
6	Saturday	Founder's Day. General Convocation for Conferring Degrees. Opening Address for the Session. Register closes in Medicine.
7	**SUNDAY**	
8	Monday	Summer Essays in Applied Science to be sent in.
9	Tuesday	
10	Wednesday	Regular Meeting of Corporation.
11	Thursday	
12	Friday	Sports Day. No Lectures.
13	Saturday	
14	**SUNDAY**	
15	Monday	
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	**SUNDAY**	
29	Monday	
30	Tuesday	
31	Wednesday	

NOVEMBER, 1928

1	Thursday	Meeting of the McCord Museum Committee.
2	Friday	
3	Saturday	
4	**SUNDAY**	
5	Monday	Meeting of the Faculty of Applied Science.
6	Tuesday	
7	Wednesday	
8	Thursday	
9	Friday	
10	Saturday	
11	**SUNDAY**	
12	Monday	Thanksgiving Day. No Lectures.
13	Tuesday	
14	Wednesday	
15	Thursday	
16	Friday	
17	Saturday	
18	**SUNDAY**	
19	Monday	
20	Tuesday	
21	Wednesday	
22	Thursday	
23	Friday	
24	Saturday	
25	**SUNDAY**	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	

DECEMBER, 1928

1	Saturday	
2	**SUNDAY**	
3	Monday	Meeting of the Faculty of Applied Science.
4	Tuesday	
5	Wednesday	
6	Thursday	Meeting of the McCord Museum Committee.
7	Friday	
8	Saturday	
9	**SUNDAY**	
10	Monday	
11	Tuesday	
12	Wednesday	Regular Meeting of Corporation.
13	Thursday	
14	Friday	
15	Saturday	
16	**SUNDAY**	
17	Monday	
18	Tuesday	
19	Wednesday	
20	Thursday	Last day of lectures before Christmas.
21	Friday	
22	Saturday	
23	**SUNDAY**	
24	Monday	
25	Tuesday	Christmas Day.
26	Wednesday	
27	Thursday	
28	Friday	
29	Saturday	
30	**SUNDAY**	
31	Monday	

JANUARY, 1929

1	Tuesday	New Year's Day.
2	Wednesday	
3	Thursday	Meeting of the McCord Museum Committee.
4	Friday	Lectures resumed in all Faculties.
5	Saturday	
6	**SUNDAY**	
7	Monday	Meeting of the Faculty of Applied Science.
8	Tuesday	Library Committee Meeting.
9	Wednesday	
10	Thursday	
11	Friday	
12	Saturday	
13	**SUNDAY**	
14	Monday	Examinations begin in Arts and Applied Science.
15	Tuesday	
16	Wednesday	
17	Thursday	
18	Friday	Second Term opens in Applied Science.
19	Saturday	
20	**SUNDAY**	
21	Monday	Second Term opens in Arts.
22	Tuesday	
23	Wednesday	
24	Thursday	
25	Friday	
26	Saturday	
27	**SUNDAY**	
28	Monday	
29	Tuesday	
30	Wednesday	
31	Thursday	

FEBRUARY, 1929

1	Friday	
2	Saturday	
3	**SUNDAY**	
4	Monday	Meeting of the Faculty of Applied Science.
5	Tuesday	
6	Wednesday	
7	Thursday	Meeting of the McCord Museum Committee.
8	Friday	
9	Saturday	
10	**SUNDAY**	
11	Monday	Founder's Day, Macdonald College.
12	Tuesday	
13	Wednesday	Ash Wednesday. No Lectures. Regular Meeting of Corporation.
14	Thursday	
15	Friday	
16	Saturday	
17	**SUNDAY**	
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	**SUNDAY**	
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	

MARCH, 1929

1	Friday	
2	Saturday	
3	**SUNDAY**	
4	Monday	Meeting of the Faculty of Applied Science.
5	Tuesday	
6	Wednesday	
7	Thursday	Meeting of the McCord Museum Committee.
8	Friday	
9	Saturday	
10	**SUNDAY**	
11	Monday	
12	Tuesday	
13	Wednesday	
14	Thursday	
15	Friday	
16	Saturday	
17	**SUNDAY**	
18	Monday	
19	Tuesday	
20	Wednesday	
21	Thursday	
22	Friday	
23	Saturday	
24	**SUNDAY**	
25	Monday	
26	Tuesday	
27	Wednesday	
28	Thursday	
29	Friday	Good Friday. No Lectures.
30	Saturday	No. Lectures.
31	**SUNDAY**	Easter Sunday.

APRIL, 1929

1	Monday	No Lectures. Meeting of the Faculty of Applied Science.
2	Tuesday	Library Committee Meeting.
3	Wednesday	
4	Thursday	Meeting of the McCord Museum Committee.
5	Friday	
6	Saturday	
7	**SUNDAY**	
8	Monday	
9	Tuesday	
10	Wednesday	Regular meeting of Corporation.
11	Thursday	
12	Friday	Second term lectures end in Architecture and the first three years Applied Science.
13	Saturday	
14	**SUNDAY**	
15	Monday	
16	Tuesday	
17	Wednesday	Sessional Examinations begin in Architecture and the first three years Applied Science.
18	Thursday	
19	Friday	
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	Lectures end.
26	Friday	
27	Saturday	
28	**SUNDAY**	
29	Monday	
30	Tuesday	

MAY, 1929

1	Wednesday	Examinations begin. Theory Examinations in Music begin.
2	Thursday	Meeting of the McCord Museum Committee.
3	Friday	
4	Saturday	
5	**SUNDAY**	
6	Monday	Meeting of the Faculty of Applied Science.
7	Tuesday	
8	Wednesday	
9	Thursday	
10	Friday	
11	Saturday	
12	**SUNDAY**	
13	Monday	Practical Examinations in Music begin.
14	Tuesday	
15	Wednesday	
16	Thursday	
17	Friday	
18	Saturday	Last day of Lectures in Music.
19	**SUNDAY**	
20	Monday	
21	Tuesday	
22	Wednesday	
23	Thursday	
24	Friday	Victoria Day
25	Saturday	
26	**SUNDAY**	
27	Monday	
28	Tuesday	
29	Wednesday	Convocation for Conferring Degrees
30	Thursday	
31	Friday	

JUNE, 1929

1	Saturday	
2	**SUNDAY**	
3	Monday	King's Birthday.
4	Tuesday	
5	Wednesday	
6	Thursday	
7	Friday	
8	Saturday	
9	**SUNDAY**	
10	Monday	
11	Tuesday	
12	Wednesday	
13	Thursday	
14	Friday	
15	Saturday	Conservatorium closes.
16	**SUNDAY**	
17	Monday	Matriculation Examination begins.
18	Tuesday	
19	Wednesday	
20	Thursday	
21	Friday	
22	Saturday	
23	**SUNDAY**	
24	Monday	
25	Tuesday	
26	Wednesday	
27	Thursday	
28	Friday	
29	Saturday	
30	**SUNDAY**	

JULY, 1929

1	Monday	Dominion Day.
2	Tuesday	
3	Wednesday	
4	Thursday	
5	Friday	
6	Saturday	
7	**SUNDAY**	
8	Monday	
9	Tuesday	
10	Wednesday	
11	Thursday	
12	Friday	
13	Saturday	
14	**SUNDAY**	
15	Monday	
16	Tuesday	
17	Wednesday	
18	Thursday	
19	Friday	
20	Saturday	
21	**SUNDAY**	
22	Monday	
23	Tuesday	
24	Wednesday	
25	Thursday	
26	Friday	
27	Saturday	
28	**SUNDAY**	
29	Monday	
30	Tuesday	
31	Wednesday	

AUGUST, 1929

1	Thursday	
2	Friday	
3	Saturday	
4	**SUNDAY**	
5	Monday	
6	Tuesday	
7	Wednesday	
8	Thursday	
9	Friday	
10	Saturday	
11	**SUNDAY**	
12	Monday	
13	Tuesday	
14	Wednesday	
15	Thursday	
16	Friday	
17	Saturday	
18	**SUNDAY**	
19	Monday	
20	Tuesday	
21	Wednesday	
22	Thursday	
23	Friday	
24	Saturday	
25	**SUNDAY**	
26	Monday	
27	Tuesday	
28	Wednesday	
29	Thursday	
30	Friday	
31	Saturday	

McGill University

HISTORY AND CONSTITUTION

FOUNDATION AND EARLY HISTORY

McGill University owes its origin to a private endowment. It was founded by the Hon. James McGill, a leading merchant and public-spirited citizen of Montreal, who died in 1813. By his will, dated January 8th, 1811, he bequeathed his property of Burnside (consisting of 46 acres of land with the dwelling-house and other buildings thereon) and a sum of £10,000 in money to found a college in a provincial university, the erection of which had already been provided for by the British Government. The four trustees appointed under his will were directed to convey the property of the bequest to the Royal Institution for the Advancement of Learning, a body which, in 1802, had been incorporated by the Legislature "for the establishment of free schools and the advancement of learning" in the Province of Quebec. The conditions upon which the property was to be transferred to the Royal Institution for the Advancement of Learning were, mainly, that the Institution should, within ten years after the testator's decease, erect and establish on his Burnside estate "a University or College for the purposes of education and the advancement of learning in this Province," and that the college, or one of the colleges in the University if established, should "be named and perpetually be known and distinguished by the appellation of McGill College." Owing to persistent opposition by the leaders of one section of the people to any system of government education and to the refusal of the Legislature to make the grants of land and money which had been promised, the proposed establishment of the provincial university by the British Government was abandoned.

In so far as the McGill College was concerned, however, the Royal Institution at once took action by applying for a Royal Charter. Such a charter was granted in 1821, and the Royal Institution prepared to take possession of the estate, but, owing to protracted litigation, this was not surrendered to them till 1829, when the work of teaching was begun in two faculties, Arts and Medicine. The record of the first thirty years of the University's existence is an unbroken tale of financial embarrassment and administrative difficulties. The

charter was cumbrous and unwieldy, and unsuited for a small college in the circumstances of this country, and the University, with the exception of its medical faculty, became almost extinct. But after thirty years the citizens of Montreal awoke to the value of the institution which was struggling in their midst. Several gentlemen undertook the responsibility of its reorganization and, in 1852, an amended charter was secured. The Governor-General of Canada for the time being, Sir Edmund Head, became interested in its fortunes, and in 1855, with the advent of a new Principal, an era of progress and prosperity began.

HISTORICAL CALENDAR

October	6, 1744	James McGill born.
January	8, 1811	Date of Will of Hon. James McGill, bequeathing to certain persons, for transfer to the Royal Institution for the Advancement of Learning, his Burnside property of 46 acres and £10,000 in money, for the founding of McGill College.
December	19, 1813	James McGill died.
March	31, 1821	Royal Charter granted to the Royal Institution for the Advancement of Learning for the foundation of McGill College.
May	1, 1822	Montreal General Hospital opened for patients.
January	29, 1823	Charter granted to the Montreal General Hospital.
October	28, 1824	Lectures begun in the Montreal Medical Institution.
January	29, 1829	Venerable Archdeacon Mountain appointed Principal. Teaching begun in two Faculties, Arts and Medicine.
June	28, 1829	The Montreal Medical Institution became the Medical Faculty of McGill University.
April	1834	Principal Mountain resigned.
April	22, 1834	Rev. T. T. Uxford appointed Principal.
July	13, 1835	Principal Uxford resigned.
November	18, 1835	Rev. John Bethune appointed Principal, pro tem.
July	12, 1843	Rev. John Bethune appointed Principal.
July	7, 1846	Principal Bethune resigned.
July	7, 1846	Mr. Edward Allen Meredith appointed Principal.
	1848	Course in Law begun in the Faculty of Arts.
	1852	Amended Charter obtained.
February	1, 1853	Principal Meredith resigned.

February	1, 1853	Hon. Mr. Justice C. D. Day appointed Principal, pro tem.
	1853	Faculty of Law established.
September	8, 1855	Principal Day resigned.
September	8, 1855	Sir William Dawson appointed Principal.
	1856	Course in Engineering begun in the Faculty of Arts.
October	10, 1862	William Molson Hall opened.
	1863	Observatory opened.
	1864	Congregational College of Canada opened in Montreal and affiliated to McGill University. (This College had been founded in Dundas, Ontario, in 1839.)
	1865	Montreal Presbyterian College founded. (Work begun in the Lecture Hall of Erskine Church, corner of St. Catherine and Windsor Streets.)
	1870	Courses of lectures by McGill Professors established for women.
	1871	Engineering Course amplified into the Department of Practical Science in the Faculty of Arts.
	1872	Work of the Faculty of Medicine transferred from their downtown quarters to the McGill Campus.
	1873	Diocesan College founded.
	1873	First Montreal Presbyterian College Building erected.
	1875	Wesleyan Theological College opened.
	1878	Faculty of Applied Science organized.
	1879	Wesleyan Theological College affiliated to McGill University.
	1880	Diocesan College affiliated to McGill University.
August	16, 1882	Peter Redpath Museum opened.
	1882	Presbyterian College enlarged by the erection of the David Morrice Hall.
	1883	Old Wesleyan Theological College erected.
	1884	Present Congregational College Buildings opened. (From 1864 to 1884 the work of the College had been carried on first in Zion Church and afterwards in Emmanuel Church.)
	1884	Women admitted to courses in Arts leading to degrees, under the Donalda endowment.
February	24, 1893	Macdonald Physics and Engineering Buildings opened.

July	31, 1893	Sir William Dawson resigned the Principalship.
October	31, 1893	Redpath Library opened.
	1894	Observatory enlarged.
	1894	Royal Victoria Hospital opened.
August	7, 1895	Sir William Peterson appointed Principal.
	1895	A tract of about 35 acres, comprising the top of Westmount Mountain, purchased and donated to the University by Sir William Macdonald.
	1896	Present Montreal Diocesan College Buildings opened.
	1896	Department of Architecture established.
December	20, 1898	Macdonald Chemistry and Mining Building opened.
September	4, 1899	Royal Victoria College for women opened.
November	18, 1899	Sir William Dawson died.
September	18, 1901	Strathcona Medical Building opened.
	1903	Dental Department opened in connection with the Faculty of Medicine.
October	14, 1904	Conservatorium of Music opened.
	1905	Strathcona Hall opened. (This is the home of the Students' Christian Association of McGill University.)
	1905	The Medical Faculty of Bishop's College amalgamated with McGill.
	1906	McGill Union (the students' social centre) opened.
	1906	Department of Commerce established under the Faculty of Arts.
April	5, 1907	Macdonald Engineering Building burned.
"	16, 1907	Medical Building burned.
"	24, 1907	Faculty of Agriculture established.
November	5, 1907	Macdonald College opened.
April	27, 1909	New Engineering Building opened.
	1909	Power Plant erected.
	1909	Joseph property, at the south-west corner of the McGill Campus, purchased and donated to the University by Sir William Macdonald.
June	5, 1911	New Medical Building opened.
July	4, 1911	Gift of Frothingham, Molson and Law properties (25 acres) from Sir William Macdonald.
November	20-24, 1911	$1,500,000.00 raised chiefly from the citizens of Montreal as a general endowment for the University.

	1912	Montreal Co-operating Theological Colleges established. (This was a union of the Congregational, Diocesan, Presbyterian and Wesleyan Colleges for a certain number of lecture courses.)
	1912	McGill School of Physical Education established.
	1913	New Wesleyan Theological College opened.
	1915	McGill Stadium completed. (This was erected on Macdonald Park, which was donated to the University by Sir William Macdonald in 1911.)
	1917	Montreal College of Pharmacy incorporated with McGill University as the Department of Pharmacy of the Faculty of Medicine.
February	25, 1918	Gift of $1,00,000 from the Carnegie Corporation of New York "in recognition of the noble and devoted service and sacrifice of McGill towards Canada's part in the Great War."
May	1, 1918	Sir William Peterson resigned the Principalship on account of ill-health.
	1918	Department of Social Science established.
October	25, 1919	Name of the McGill Stadium changed to "The Percival Molson Stadium" and formally dedicated to the memory of the late Percival Molson, who was killed in the Great War and who bequeathed $75,000 for its erection.
	1919	Faculty of Dentistry established.
	1920	Faculty of Music established.
	1920	School for Graduate Nurses established.
August	1, 1920	Sir Arthur Currie appointed Principal.
November	15-20, 1920	Over $4,000,000 subscribed by citizens of Montreal and graduates for the funds of the University; and $1,000,000 granted for the same purpose by the Government of the Province of Quebec, and $1,000,000 by the Rockefeller Foundation of New York for medical education.
January	4, 1921	Sir William Peterson died.
October	26, 1922	Biological Building opened.
June	5, 1924	Gift of $500,000 from the Rockefeller Foundation for the purpose of establishing a medical clinic.
October	6, 1924	Pathological Institute opened.
May	28, 1925	Roddick Memorial Gates opened.
	1926	Opening of the Royal Victoria-Montreal Maternity Pavilion.
October	6, 1926	Opening of the reconstructed Arts Building (McGill College).

GOVERNMENT OF THE UNIVERSITY

By the Charter "the Governors, Principal, and Fellows" of the University are constituted a body politic and corporate, with all the usual rights and privileges of corporate bodies. The supreme authority, however, is vested in the Crown, and is exercised by his Excellency the Governor-General of Canada, for the time being, as **Visitor.** This is a special and important feature of the constitution, for, while it gives the University an imperial character and removes it at once from any merely local or party influence, it secures the patronage of the head of the political system of the country.

The **Governors** of the University are the members of the Royal Institution for the Advancement of Learning, above mentioned, and in them are vested the management of finances, the passing of University statutes and ordinances, the appointment of professors, and other important duties. Their number is limited to twenty-five. Three of these are elected by the members of the Graduates' Society and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is ex-officio Chancellor of the University.

The **Principal** is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member ex-officio). He also holds the office of Vice-Chancellor of the University.

The **Fellows** (45 in number) are selected with reference to the representation of all the faculties and departments of the University, and of the graduates, affiliated colleges, and other bodies.

The Governors, Principal and Fellows together constitute the **Corporation,** the highest academical body. Its powers are fixed by statute and include the framing of all regulations touching courses of study, matriculation, graduation, discipline and the granting of degrees.

The carrying out of the regulations of Corporation along with primary responsibility for the conduct of the educational work of the University is entrusted to the several **Faculties.**

INCORPORATED AND AFFILIATED COLLEGES

INCORPORATED COLLEGES

Macdonald College is situated at Ste. Anne de Bellevue, about twenty miles from Montreal. It consists of three departments:—The School of Agriculture, the School of Household Science, and the School for Teachers. Courses leading to the Bachelor's and Master's degrees in Agriculture are under the control of the Corporation of McGill University; all the short term courses in agriculture, as well as the course in domestic science, are under the direction of the Executive Committee of Macdonald College, and those for diplomas to teach in the Province of Quebec are prescribed and regulated by the Department of Education. Full information is given in the Macdonald College Announcement, which will be sent on application to the Registrar, Macdonald College, Que.

The Royal Victoria College is the women's College of McGill University for courses in the Faculty of Arts. For further particulars, see pages 226 to 231.

AFFILIATED COLLEGES

Acadia, Alberta and Mount Allison Universities and the University of St. Francis Xavier College are affiliated to McGill University to the extent that students who have completed the two-year course in engineering given by these universities are admitted directly to the Third Year in any of the engineering courses in the Faculty of Applied Science.

Students from these universities entering the Third Year must take the summer school suitable to their course, in May, or the special school in September, which will open in 1928 on September 4th, in Chemical, Mechanical and Metallurgical Engineering and on September 17th in Civil and Mining Engineering.

Royal Military College.—Graduates of the Royal Military College of Kingston, when specially recommended by the Director of Studies of that Institution, are admitted to the Fourth Year in the Civil Engineering Course and to the Third Year in the other engineering departments of the Faculty of Applied Science. They must in all cases take the respective summer schools pertaining to these several courses, which are held in September, as per the preceeding paragraph

Arrangements have also been made whereby graduates and students of the Mechanical Science course in the University of Cambridge will be admitted to advanced standing in the Faculty of Applied Science under definite regulations, particulars of which can be obtained from the Dean of the Faculty

AFFILIATED THEOLOGICAL COLLEGES

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions, who are pursuing a double course in Arts and Theology (six years at least) will be exempted from a half course in Arts in each of the Third and Fourth Years or a whole course in either.

The United Theological College of Montreal.—Principal, Rev. James Smyth, B.A., B.D., LL.D., 3506 University St.

The Diocesan College of Montreal.—Principal, Rev. G. Abbott-Smith, M.A., D.D., D.C.L., 3473 University St.

The Presbyterian College, Montreal.—Principal, Rev. D. J. Fraser, M.A., LL.D., D.D., 3489 McTavish St.

For Calendars and all necessary information, apply to the Principals of the several Colleges.

AFFILIATION TO OTHER UNIVERSITIES

The University is affiliated to the universities of Oxford, Cambridge and Dublin, under conditions which allow an undergraduate who has taken two years' work, and has passed the Second Year sessional examination in Arts, to pursue his studies and take his degree at any of these universities on a reduced period of residence.

CLASSES OF STUDENTS

There are four classes of students in the University:—

(1) Graduates—students who have previously obtained an ordinary degree at McGill, or elsewhere, and who are now pursuing courses for the Master's degree, or for the degree of Ph.D.

(2) Undergraduates—students who have passed the matriculation examination and, in the case of Second, Third and Fourth Year students, all the examinations of their courses in the Years below that in which they are registered.

(3) Limited undergraduates—students in the Faculty of Arts who have matriculated, but who for special reasons are not able to follow the regular curriculum of four years. Such students may, if the reasons advanced appear satisfactory to the Dean, be given the status of Limited Undergraduates and may distribute their work for the degree over five, but not over more than eight years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular undergraduate curriculum, and shall conform to the time-table.
Limited Undergraduates will not be eligible for Honour courses, scholarships, exhibitions, bursaries or prizes of any description.

(4) Partial students—comprising all those who, not belonging to one of the above classes, are taking a partial course of study in the University. In order to obtain admission, such students must pass the matriculation examination in the subject, or subjects, which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the courses.

FACULTIES, COURSES AND DEGREES

The educational work of the University is carried on in McGill College, the Royal Victoria College for Women, and other University buildings in Montreal; and also in Macdonald College at Ste. Anne de Bellevue.

COURSES FOR DEGREES AND DIPLOMAS

The several courses offered by the University are as follows:—

In McGill College.

For the degree of Bachelor of Arts (B.A.).
" " " " Bachelor of Science (B.Sc.).
" " " " Bachelor of Commerce (B.Com.).

The undergraduate courses of study which lead to the degree of B.A. or B.Sc. extend over four sessions of eight months each. In the Second, Third and Fourth Years extensive options are provided, and certain exemptions are also allowed to professional students. See page 164.

The course for the degree of Bachelor of Commerce extends over four years. (Full information is given on pages 232 to 251.)

Courses leading to the degrees of Bachelor of Household Science and Bachelor of Science in Agriculture are also offered. The first two years are taken in the Faculty of Arts and the last two in the School of Household Science or the Faculty of Agriculture, as the case may be. Details of the courses will be found on pages 158 to 160, and in the Macdonald College Announcement.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine, in eight years, with that in Applied Science in six years, and with that in Architecture or Dentistry in seven.

The courses in Arts are open to women (who are educated mainly in separate classes) on equal terms with men. Residential accommodation for women students is provided in the Royal Victoria College. Further particulars are given on page 230.

Holders of the degree of B.A. from this University are admitted to the study of the learned professions, without preliminary examination, in the different provinces of Canada, and in Great Britain and Ireland, and elsewhere.

Candidates for the degree of B.A., B.Sc., or B.Sc. in Agriculture, can qualify for a First Class High School Diploma on graduation by taking in their course, the subjects required by the Department of Education for this diploma and by doing the practice teaching which the law demands (see pages 181 to 183).

In the Faculty of Applied Science.

For the degree of Bachelor of Architecture (B. Arch.).

For the degree of Bachelor of Science (B.Sc.), in the departments of Chemical, Civil, Electrical, Mechanical, Metallurgical, and Mining Engineering.

The undergraduate courses of study for the degree of B.Sc. extend over four sessions, averaging (with summer sessions) about eight months each, and provide a thorough professional training in the departments mentioned above. Candidates for entrance must pass the Senior Matriculation Examination in certain subjects, or complete one year in the Faculty of Arts. (See page 98.) The course for the degree of B.Arch. extends over five years. Full particulars are given on pages 252 to 336.

The undergraduate course in Arts can be taken along with the undergraduate course in Applied Science in six years, and with that in Architecture in seven.

In the Faculty of Law.

For the degree of Bachelor of Civil Law (B.C.L.).

The undergraduate course for this degree extends over three sessions of eight months each.

In the Faculty of Medicine.

For the degree of Doctor of Medicine and Master of Surgery (M.D., C.M.).

For the degree of B.Sc. in Medicine.

For the Diploma of Public Health.

For the Diploma of Pharmacy.

The undergraduate course of study leading to the degree of M.D., C.M., extends over five sessions of eight months each, following two pre-medical years in the Faculty of Arts. Further information is given on pages 337 to 387.

The undergraduate course in Arts can be taken along with the undergraduate course in Medicine in eight years.

In Macdonald College.

For the degree of Bachelor of Science in Agriculture (B.Sc. in Agriculture and B.S.A.).

Other courses in the School of Agriculture.

For the degree of Bachelor of Household Science (B.H.S.), two years in Arts, and two in the School of Household Science.

Other courses in the School of Household Science.

The several courses for teachers' diplomas.

The course of study for the degree of Bachelor of Science in Agriculture extends over four sessions of about eight months each. It aims to provide a thorough theoretical and practical training in the several branches of the science.

The Macdonald College Announcement, containing full details as to buildings, courses, terms of admission, fees, etc., can be obtained from the Registrar, Macdonald College P.O., Que.

In the Faculty of Dentistry.

For the degree of Doctor of Dental Surgery (D.D.S.).

The undergraduate course of study leading to the degree of D.D.S. extends over four sessions of eight months each, following two pre-dental years in the Faculty of Arts. (For further particulars, see pages 397 to 413.)

The undergraduate course in Arts can be taken along with the undergraduate course in Dentistry in seven years.

In the Faculty of Music.

For the degree of Bachelor of Music (Mus. Bac.).

For the Diploma of Licentiate in Music, and the several Grade examination certificates.

Students are admitted as *Regular Students* taking an organized course leading to the diploma of Licentiate in Music or the degree of Bachelor of Music or as *Partial Students,* who, under certain conditions and after examination, can obtain certificates bearing the imprimatur of the University. Full details can be obtained on application to the Secretary of the McGill Conservatorium of Music, 677 Sherbrooke St. West, Montreal.

In the Faculty of Graduate Studies and Research.

For the degree of Master of Arts (M.A.), Master of Science (M.Sc.), Master of Science in Agriculture (M.S.A.), Doctor of Philosophy (Ph.D.), Doctor of Science (D.Sc.), Doctor of Literature (Litt.D.), Doctor of Civil Law (D.C.L.), and Doctor of Music (Mus. Doc.).

Full information as to admission and departments in which studies are offered will be found on pages 442 to 490.

The degree of Doctor of Laws is given only as an honorary degree.

School for Graduate Nurses.

Four courses, each covering an academic year, and leading to a certificate: (a) For Public Health Nursing; (b) Teaching in Schools of Nursing; (c) Administration in Schools of Nursing; (d) Supervision in Schools of Nursing. (See pages 528 to 542 for details.)

School of Physical Education.

Two-year course, leading to a diploma. Full particulars are given on pages 501 to 516.

School for Social Workers.

A Diploma Course extending over two years. See pages 517 to 527.

Department of Extra-Mural Relations.

Extra-Mural Courses in Montreal and elsewhere on subjects of general interest (Psychology, History, English, Mental Hygiene, etc.).

Courses carried on in co-operation with professional associations and leading to their diplomas (Chartered Institute of Secretaries, Canadian Credit Institute).

Lyceum Lectures (single lectures on special subjects) given to any group in the Province.

Lantern Lectures on many subjects sent out on request.

Reading courses supplied.

Detailed announcement on application to the Department.

Winter course (October to May), leading to a diploma.

For further particulars see pages 552 to 563.

Library School.

A full year's course, leading to a diploma.

The University also offers a six weeks' summer course in library work, of the apprentice type, for assistants in small libraries.

Full information will be found on pages 564 to 581.

Extension Courses.

Afternoon and evening lectures on a variety of subjects. A special announcement will be issued before the opening of the session.

Student Organizations.

Several student societies have been formed which play an important part in college education, a limited number of which it is to the interest of every student to join. Among these may be prominently mentioned the McGill Daily, the Debating Union, the Players' Club, the Cercle Français, the Société Française and a considerable number of Departmental and Faculty Clubs, the members of which meet more or less regularly for lectures and the reading and discussion of papers on subjects connected with their particular sphere. There are also several musical organizations, such as the Musical Association, the Operatic and Choral Society and the University Band, which performs most acceptably on the occasion of University games in particular. Students coming to the University for the first time who have had some experience in the playing of musical instruments should not fail to bring their instruments with them, and by joining the Band take advantage of the opportunity of quickly getting into the centre of college activities.

ENTRANCE REQUIREMENTS

JUNIOR MATRICULATION

(For admission to the Faculties of Arts, Music, Agriculture, the Department of Architecture and the School of Physical Education.)

I. REGULATIONS

1. Junior Matriculation examinations are held in June and September—in June at McGill University and local centres; in September, at Montreal only, except in cases which require special consideration.

ALL INQUIRIES RELATING TO THE EXAMINATIONS SHOULD BE ADDRESSED TO THE REGISTRAR OF THE UNIVERSITY.

For the convenience of candidates in Great Britain, who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each year, commencing on or about the 16th of June. Full information regarding the exact date of the examination, fee, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, Esq., C.B.E., M.A., Secretary, Headmasters' Conference, 5 Paper Buildings, Temple, London, E.C. 4.

2. Every candidate for examination is required to fill up an application form and return the same with the necessary fee (for which see page 132) one month before the examination begins. Blank forms may be obtained from the Registrar.

No application for the examination in June, at outside centres, will be received after May 15th.

3. In order to pass, a candidate must obtain 60 per cent of the aggregate for all subjects of the Matriculation Examination, and not less than 40 per cent in any paper; provided, however, that a candidate who makes an exceptionally high aggregate, but fails in one paper only, may be admitted at the discretion of the Faculty, or Department, concerned. The examination may be taken in parts, but it must be completed within thirteen months from the date of the first attempt. Subjects passed more than thirteen months before any June examination cannot therefore be counted to the credit of a candidate writing at that time. The September examination is considered merely as supplemental to that in June.

This regulation also applies in the case of certificates granted by other recognized examining bodies.

4. Matriculation certificates will be issued to candidates who have passed the examination conducted by the University, but not to those who

have satisfied the greater part of the entrance requirements by means of certificates granted by other examining bodies.

5. The certificates and diplomas named below will (if they have been obtained under no easier conditions than those which apply in the case of the McGill Matriculation certificate) be accepted *pro tanto* in lieu of the Junior Matriculation examination, *i.e.*, in so far as the subjects and standard of the examination taken to obtain them are, to the satisfaction of the Matriculation Board, equivalent to those required for the Matriculation Examination of this University. Candidates offering certificates which are not a full equivalent will be required to pass in the subjects in which they are deficient under the provisions of Regulation 3.

Intending students who wish to enter by certificates should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificate they hold, as many may lack one or more essential subjects, or the work done in a subject may not be adequate, or again, the percentage gained may not be sufficiently high (see Regulation 3). When a diploma or certificate does not show the marks obtained in the several subjects of the examination, it must be accompanied by an official statement containing this information.

Province of Quebec.

The High School Leaving Certificate.
The Intermediate School Diploma.

Province of Ontario.

Certificate of entrance to the Normal Schools.
Junior Matriculation Certificate.

Province of New Brunswick.

First Class, Superior and Grammar School Licenses.
Grade XI Certificate.

Province of Nova Scotia.

Grade XI Certificate.

Province of Prince Edward Island.

First Class Teachers' License.
Second Year Certificate of Prince of Wales College.

Province of British Columbia.

Grade XI Certificate.

Province of Manitoba.

Second Class Teachers' Certificate.
Grade XI Certificate.

Provinces of Alberta and Saskatchewan.

The Departmental Certificate of Standard XI.

Newfoundland.

Junior Associate Grade Certificate.

United States.

Certificates granted by the College Entrance Examination Board and by the New York State Board of Regents.

Great Britain.

The Higher Certificate or the School Certificate of the Oxford and Cambridge Schools Examination Board.

The Senior Certificate of the Oxford or Cambridge Board of Examiners.

The First Class Certificate of the College of Preceptors.

The Higher Examination Certificate of the Scotch and Welsh Education Departments.

Miscellaneous.

Other certificates, such as those issued by reputable universities or recognized public Examining Boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

II. SUBJECTS OF EXAMINATION

For 1929

Faculty of Arts

A. *For admission to the B.A. course.*

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**Latin** *or* **Greek.**
4.	200	One of the following:— **Greek** *or* **Latin** (the one not already chosen); **French; German.**

5.	200	**Elementary Mathematics.**
6.	100	One of the following*:— **Botany; Chemistry; Physics; Physical Geography†; Music; Advanced Mathematics‡;** a **foreign language** not already chosen.
Total	1,000	

B. *For admission to the B.Sc. course in Arts.*

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**French.**
4.	200	**Elementary Mathematics.**
5.	100	One of the following*:— **Botany; Chemistry; Physics; Physical Geography.†**
6.	200	**Latin,** *or* **German,** *or* **Advanced Mathematics‡;** *or* any two of the subjects named under No. 5, not already taken, *or* one of these and either **Drawing** *or* **Music.**
Total	1,000	

C. *For admission to the School of Commerce.*

The matriculation examination for the B.A. or the B.Sc. Course in Arts, but in the case of the latter German or Spanish may be substituted for French.

Department of Architecture

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	One of the following:— **French; German; Spanish; Latin; Greek.**
4.	200	**Elementary Mathematics.**
5.	200	**Advanced Mathematics.**
6.	100	One of the following*:— **Botany; Chemistry; Physics; Physical Geography†;** a **Language** not already chosen.
Total	1,000	

* When a science subject is selected under this head candidates are advised to choose Physics.

† After 1929 this subject will not be accepted.

‡ Candidates who intend to enter Applied Science ultimately are advised to take this subject.

Candidates must also satisfy the Head of the Department as to their proficiency in Freehand and Geometrical Drawing. To this end they may send in specimens of their work before September 20th, or they may take an examination at the time of the regular matriculation examination in that month. No examinations taken elsewhere are accepted as an equivalent and no student will be admitted to the Department as an undergraduate until he has satisfied the requirements in this subject.

Faculty of Agriculture

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	200	**Latin** *or* **French** *or* **German** *or* **Spanish** (French preferred).
4.	200	**Elementary Mathematics.**
5.	100	Any one of the following:—**Botany; Chemistry; Physics; Zoology; Physical Geography.**†
	Total 800	

A School Leaving Certificate of the Province of Quebec or an Intermediate Diploma, or a matriculation certificate for entrance to any other Faculty of the University will also be accepted.

Candidates, without academic training sufficient to qualify for entrance by any of the methods above, who are at least twenty years of age and possess a substantial farm experience, together with mental endowments sufficient to successfully undertake the course despite some academic handicap, may be admitted to the course by the Admission Committee, provided the students so admitted be required to obtain matriculation standing before entering the Third Year.

Opportunity for Matriculation.—A limited number of students who have no matriculation standing, but who think they might be able to obtain it after one or two years' study, can be accommodated in residence and take work at the High School, provided they are sufficiently advanced to enter Grade X or XI.

School of Physical Education

The subjects required for the Faculty of Agriculture, as shown above.

† After 1929 this subject will not be accepted.

Faculty of Music

	Marks Assigned	
1.	200	**English.**
2.	100	**History.**
3.	400	Two of the following:—**French; German; Spanish; Italian; Latin.**
4.	100	**Algebra** *or* **Geometry.**
5.	100	**Rudiments of Music:** musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh.
	Total 900	

For admission requirements in the Schools for Social Workers and Graduate Nurses, see pages 519 and 533 and for information touching admission to the Faculties of Medicine, Dentistry and Applied Science, see page 98.

III. PRESCRIPTION OF WORK IN EACH SUBJECT

For 1929

History and Historical Geography.

Candidates may choose any one of the following:—

(1) General History from 1300 A.D. to the present time. West's World Progress (Allyn & Bacon), pp. 305 to the end, which is authorized for the schools of the Province of Quebec, indicates the scope of the examination. (Chapters XXXII, XXXIII, XXXVIII, XL, XLI, XLVIII, XLIX, L, LI, LV, LVI, LIX, LX, LXI, LXII, will be for reading only.) Any standard General History covering the same ground may be used instead.

(2) Ancient History to 14 A.D. *Text-Book*:—Botford's History of the Ancient World, *or* the High School Ancient History (The Macmillan Company of Canada).

(3) British History from 1714 to the present time. *Text-Book:*—The Groundwork of British History by Warner and Marten (Blackie & Sons, Edinburgh), Part III., with appendices.

The geography required will be that relating to the history prescribed. An option will be set on the Ontario requirements in this subject in 1929, but not thereafter.

One examination paper.

English.

A. *Composition.* As in the Ontario High School Composition, pages 198 to the end (Copp, Clarke Co.), with a short essay on a general subject and two or three others based on the works prescribed for reading, as follows:—Shakespeare, As You Like It (Copp, Clark Co.*); Thackeray, Henry Esmond (Macmillan*); Macdonald's English Prose Selections (Macmillan), Part II.

These books should be read carefully, but the student's attention should not be so fixed upon details that he fails to appreciate the main purpose and beauty of the work.

Frequent practice in composition is essential.

B. *Literature* (for critical study).—Shakespeare, Julius Cæsar (Copp, Clark Co.*); Poems of the Romantic Revival, pages 29-56 and 107-162 (Copp, Clark Co., Ltd., Toronto).

Passages for memorization:—

The Prelude, lines 40-56; The Rainbow, the whole; Ode on Intimations of Immortality, lines 58-66; She Dwelt Among the Untrodden Ways, the whole; The World is too Much with us, the whole; Ode to a Nightingale, lines 61-70; Songs from Pippa Passes, lines 1-8; The Italian in England, lines 145-160; Andrea del Sarto, lines 69-98; Asolando, lines 11-20; As You Like It, Act II, Scene VII, lines 139-166; Julius Cæsar, Act II, Scene I, lines 10-35; Act III, Scene I, lines 148-163; Act III, Scene II, lines 217-231; Act V, Scene V, lines 68-75.

Candidates will also be expected to commit to memory other passages of a striking nature, but not exceeding 25 per cent of the amount prescribed.

Two examination papers; one on Composition and the other on Literature (for critical study).

An alternative paper will be set on the work specified in English for the Junior Matriculation examination of the Province of Ontario, but not after 1929.

Spelling will be tested by the candidates' papers in English. Examiners in other subjects will also take note of mis-spelled words and will report flagrant cases to the Board.

Greek.

Text.—Easy Selections from Xenophon, Philpotts and Jerram, chaps. 3, 4, 5; Homer, Iliad I, lines 1 to 350.

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* These editions are recommended, not prescribed.

Grammar.—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

Translation at Sight from Greek into English.

Two examination papers; one on Xenophon and Composition, the other on Homer and Translation at Sight.

Alternative questions will be set on the work prescribed in Greek for the Junior Matriculation Examination of the Province of Ontario, but not after 1929.

Latin.

Texts (Translation and Grammatical study).

Selections from Cicero, ed. Charles (Bell's Illustrated Classics); Virgil, Aeneid, Book II.

Grammar.—Knowledge of grammar will be tested by translation and composition, and by grammatical questions based on the specified texts.

Translation at Sight from Latin into English.

Composition.—Translation into Latin of detached English sentences and easy narrative.

Two examination papers; one on Cicero and Composition, and the other on Virgil and Translation at Sight.

Note.—The "Roman" method of pronouncing Latin is recommended.

An alternative paper will be set on the Latin texts prescribed for the Junior Matriculation examination of the Province of Ontario, but not after 1929.

French.

Prescribed texts:—Daudet, Trois contes choisis (Heath); Jules Girardin, Les braves gens (Oxford University Press, Toronto).

Grammar.—A thorough knowledge of French accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translations into English from prescribed texts and at sight of a French passage of moderate difficulty.

Translation at Sight into French of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of French grammar.

Books recommended:—Fraser and Squair's French Grammar or Bertenshaw's French Grammar (Longmans), and Cameron's Elements of French Prose Composition (Holt & Co.).

Two examination papers; one on prescribed texts and grammar, including translation of short English sentences into French, and one on translation of continuous passages from French into English and from English into French.

An option will be set on the texts prescribed for Junior Matriculation French in the Province of Ontario, but not after 1929.

German.

Texts.—(Translation and grammatical study) :—

Guerber, Mächen und Erzählungen (Heath), omitting Nos. 3, 4, 10, 14 and Poems; Baumbach, Der Schwiergershon (Copp, Clark Co.).

Grammar.—A thorough knowledge of German accidence and syntax, as in Van der Smissen, or any other German grammar of equally good standing.

Translation at Sight into English of a German passage of moderate difficulty.

Translation into German of detached English sentences and of an easy English passage. Material for such translation is selected with a view to exemplifying the points of grammar included within the above limits.

The Ontario Junior Matriculation requirements in German will be accepted in place of the texts specified above up to and including 1929, but not thereafter.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

Spanish.

Translation from English into Spanish of short sentences involving important rules of syntax; translation from prescribed books; unseen translation from Spanish into English; Spanish composition; the translation of easy continuous prose passages from English into Spanish.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into Spanish and one on translation of continuous passages from Spanish into English and from English into Spanish.

Books recommended:—Elementary Spanish grammar, Sanin Cano (Oxford Press); Spanish Composition, Loiseaux (Silver, Burdett & Company).

Prescribed books:—Novelas Cortas, by Alarcon (Ginn & Company); Spanish Reader, Sanin Cano (Oxford Press).

Italian.

Prescribed texts:—Bowen's Italian Reader (Heath); Manzoni, I promessi spisi.

Grammar.—A thorough knowledge of Italian accidence and of those points of syntax which are of more frequent occurrence in an ordinary easy style.

Translation at Sight into English of an Italian passage of moderate difficulty.

Translation into Italian of detached English sentences and an easy English passage. Material for such translation is selected with a view to testing the candidate's general knowledge of Italian grammar.

Books recommended:—Grandgent's Italian Grammar (Heath); Grandgent's Italian Composition (Heath).

Two papers will be set; one on grammar, including translation of short English sentences into Italian, and one on translation of continuous passages from Italian into English (from prescribed texts) and from English into Italian.

Elementary Mathematics.

Algebra.—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities, ratio and proportions, as in Hall and Knight's Elementary Algebra, Chapters I to XXXII (omitting portions marked with an asterisk and Arts 303-311), or as in similar text-books.

One examination paper.

Geometry.—The paper shall contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate shall provide himself with a ruler graduated in inches and tenths of an inch, and in centimetres and milimetres, a set square, a protractor, compasses and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometry shall consist of theorems contained in the text-book prescribed, together with questions upon

these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

Text-book recommended:—Hall and Stevens' School Geometry, pp. 1-203, 219-265, 267-276 and Theorems 69, 70, 71, 72.

One examination paper.

Advanced Mathematics.

Algebra.—The three progressions, variation, permutations and combinations, binomial theorem, logarithms, theory of quadratic equations, as in the remainder of Hall and Knight's Elementary Algebra (omitting chaps. 40 to 44 inclusive), or as in similar text-books.

One examination paper.

Geometry.—As in Hall and Stevens' School Geometry, pp. 202-212, 266-269, 280-310, 319-322, and also Godfrey and Siddons Elementary Geometry (Pitt Press, Cambridge), pp. 143-153 and 288-294, or as in similar text-books. Candidates are expected to be familiar with the use of squared paper, in the location of points, finding areas of rectilinear and curvilinear figures, plotting loci (in particular the ellipse, hyperbola and parabola) and the plotting of loci as envelopes.

Trigonometry.—Measurement of angles, trigonometrical ratios or functions of one angle, of two angles, and of a multiple angle; as in Lock's Elementary Trigonometry, Chaps. I to XII; Hall and Knight's Trigonometry, Chaps. I to XII, inclusive; or as in similar text-books.

Geometry and Trigonometry will be included in one examination paper.

Chemistry.

An elementary treatment of the fundamental principles of chemistry, with the preparation and properties of the commoner elements and their most important compounds, the application of these in the home and in the industries, the laws of chemical action, the essential hypotheses, etc.

Text-book:—"Elementary Chemistry for High Schools" (Revised Edition) by Nevil Norton Evans (W. J. Gage & Co. Ltd., Toronto), Chaps. I-XXV inclusive.

One examination paper.

Physics.

Properties of matter; elementary mechanics of solids and fluids, including the laws of motion, simple machines, work, energy; fluid pressure and specific gravity; thermometry, the effects and modes of transmission of heat.

Text-book recommended:—High School Physics, by Merchant and Chant (revised edition), Parts I, II, III, IV and VI, or the equivalent in other text-books.

One examination paper.

Physical Geography.

The Ontario High School Physical Geography. (This subject will be discontinued after 1929.)

Botany.

Candidates will be examined on the following schedule, both parts:—

PART A

The Plant Cell: the cell-wall; the cytoplasm, the nucleus; the chloroplasts in green cells; movements of cytoplasm.

Seeds: structure; modifications which aid in dispersal; nature of the stored food; the digestion of foods by means of enzymes; germination.

Seedlings: different types; the relation of growth to temperature, light and moisture.

Roots: structure; region of growth; osmosis; the absorption of water and solutions of mineral nutrients; modifications, especially in connection with the storage of foods.

Stems: structure of the principal types; growth in length and thickness; the transfer of water and of mineral nutrients from roots to leaves; the transfer of prepared foods from leaves to other parts of a plant; the storage of food in stems; the making of maple sugar; climbing and twining stems; other modifications of stems; pruning.

Leaves: structure; photosynthesis; transpiration; adjustments to light; daily movements; modifications.

Respiration: experiments as in Eikenberry.

Buds: especially winter buds.

Propagation by vegetative or asexual means, both natural and artificial: tubers; bulbs; stolons; runners; grafting; layering; budding.

Flowers: structure and arrangement of organs in the principal types; the functions of the different parts; self-pollination and cross-pollination; fertilization.

Fruits: structure of the principal types; modifications which assist in dispersal.

Plant Societies and special adaptations to environment.

Forests: forestry; timbers.

PART B

A study of the principal groups of plants, emphasizing the evolution of complex from simple forms, the division of labour and the evolution of organs, the origin and evolution of sex and certain economic relations.

Bacteria: form, size, structure, motility, reproduction; relation to soil fertility; the root-nodules of the pea family and rotation of crops; relation to decay; relation to dairy products, sterilization and canning; relation to disease.

Fresh water algæ:

1. Pleurococcus, a unicellular green plant found growing on tree trunks, undifferentiated, without sexual reproduction, increasing by fission only.
2. Spirogyra, a filamentous green plant with a very simple type of sexual reproduction by means of similar germ-cells.
3. Oedogonium, a filamentous green plant with a higher type of sexual reproduction, by means of differentiated ova and sperms.

Higher fungi: A black bread mould (Rhizopus); a downy mildew; the yeast plant and alcoholic fermentation; a blue mould; the corn-smut; wheat-rust; a mushroom; a wood-destroying fungus. In connection with the fungi, consideration is to be given to parasitism and saprophytism, the relations of dependent plants and their hosts; and common plant diseases and their prevention.

Lichens: one common lichen such as Parmelia, Umbilicaria Cladonia, Symbiosis.

Liverworts: structure; life-history and alternation of generations; the origin of epidermis and stomata; the progressive development of the sporophyte, using Riccia, Marchantia and Anthoceros.

Mosses: life-history and structure of a common moss, such as Polytrichum; peat-bogs and peat.

The Ferns and their Allies (Pteridophytes): structure and life-histories of a fern, an equisetum, a lycopod and a selaginella; the origin of roots and the development of a fibro-vascular system; alternation of generations and the increasing importance of the sporophyte; Pteridophytes of past ages; coal.

Seed-plants:—

1. Gymnosperms:—structure and life-history of a pine; the origin of the seed-habit; pulp; timber; gymnosperms of past ages.
2. Angiosperms:—the structure and life-history of at least one monocotyledon for example, the trillium, and of one dicotyledon, such as the bean.
3. A brief study of leading agricultural and horticultural plants.

Regional distribution:—

Plant-breeding: A brief consideration of the underlying principles and methods.

Text-books:—"Practical Botany," by Bergen and Caldwell, to be used with "Problems in Botany," by W. E. Eikenberry, a laboratory manual for the guidance of teachers. Any other modern text-book covering similar ground may, however, be used.

One examination paper.

Music.

The Intermediate Grade Certificate of McGill University in practical subjects and the Junior Grade Certificate in theoretical *or* vice versa. (Details will be found in the Announcement of the Conservatorium of Music.)

Drawing.

Candidates may take either Parts I and II or Parts III and IV.

PART I

Elementary problems in Geometrical Drawing, with applications, as in Part I of Armstrong's Geometrical Drawing (Renouf and Co.).

PART II

(a) Reproduce freehand ornament designs from flat copies.

(b) Make drawings, by freehand or otherwise, of objects described. illustrating the principles of perspective.

(c) Make outline drawings of objects placed at a short distance.

PART III

Draw in light and shade, with charcoal or pencil, from a plaster cast or ornament in high relief.

PART IV

Make water colour drawings of still life groups.

SENIOR MATRICULATION

(For admission to Second Year)

I. B.A. Course

English.
Latin *or* **Greek.**
Mathematics *or* **a third foreign language.**
Any two of the following:—
1. **History.**
2. **Latin** *or* **Greek** (the one not already taken).
3. **French.**
4. **German.**
5. **Science (Physics** *or* **Chemistry** *or* **Biology).**
6. **Music.**

Candidates cannot substitute a third foreign language for Mathematics unless they have passed in the Mathematics prescribed for Junior Matriculation.

II. B.Sc. Course

Chemistry.
English.
French.
Mathematics.
Physics.

III. B.Com. Course

English.
Mathematics.
French *or* **German** *or* **Spanish.**
Accountancy.

Any two of the following:—
1. **Latin** *or* **Greek.**
2. **French** *or* **German** *or* **Spanish** (the one not already taken).
3. **Physics** *or* **Biology** *or* **Chemistry.**
4. **History.**

This examination may be taken in two parts, but a candidate must complete the requirements within thirteen months from the date of the first attempt. The pass mark is 50 per cent in each paper.

REQUIREMENTS IN EACH SUBJECT

(For the Years 1929 and 1930)

Accountancy.

Double-entry bookkeeping, control accounts, trading and profit and loss statements, balance sheets, various forms of Cash Books, imprest system petty cash, Columnar Journals, Bills Registers, reserves for discounts, bad debts and depreciation, single-entry, consignments, working sheets, inward and outward freight, capital and revenue expenditure, bills of exchange, bills of lading, etc.

Text-book:—"Accounting Principles and Practice," by Smails and Walker (Ryerson Press, Toronto), Chapters 1-7 inclusive.

Further details will be given on application to the Registrar.

Biology.

Text-books:—Conn, H. W. (Silver, Burdett & Co.), Chaps. 1 to 10, inclusive, and Spirogyra, Mucor, and a fern; J. B. S. Haldane and Julian Huxley, Animal Biology (Clarendon Press).

In addition, a certificate will be required, signed by the Headmaster of the school attended, to the effect that the candidate had regularly carried out the necessary laboratory work on the course indicated.

Chemistry.

Text-book:—Newell, College Chemistry, omitting chapter on Radioactivity.

English.

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination, it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Carpenter's Rhetoric and English Composition (Macmillan) is recommended as a suitable text-book.

Literature.—The examination will be based on the following texts:—Chaucer's Prologue to the Canterbury Tales; Spenser's Faerie Queene, Book 1, Cantos 1 and 2; Shakespeare's Macbeth and As You Like It; Milton's Minor Poems (L'Allegro, Il Penseroso, Lycidas and Comus); and Bunyan's Pilgrim's Progress, Part I.

Candidates will also be expected to read Long's English Literature (Ginn & Co.), Chapters I-VII, inclusive, with special emphasis on the portions most closely connected with the foregoing list of books.

French.

(1) For the B.A. Course.

Bouvet, French Syntax and Composition (Heath); Lavisse, Histoire de France, Cours Moyen; Maupassant, Huit Contes Choisis; Jules Verne, Le Tour du Monde (Heath); Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford).

(2) For the B.Sc. Course.

Bowen, First Scientific French Reader (Heath); Jules Verne, Vingt Mille Lieues sous les Mers (Heath); Williams, Technical and Scientific French (Heath); Ardoun-Dumazet, La France qui travaille (Heath); Hugo, Les Travailleurs de la Mer (Heath).

German.

(1) For the B.A. Course.

Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Heyse, Die Blinden (Holt); Hauff, Die Karavane (Macmillan or Holt); Storm, In St. Jurgen (Holt).

(2) For the B.Sc. Course.

Vos, Essentials of German (Holt); Guerber's Märchen und Erzählungen, Vol. I (Heath); Gore's German Science Reader (Heath).

Greek.

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested, others may be used.

The examination will include a paper on grammar, composition and sight translation.

One of the following books is recommended for grammar:—First Greek Grammar, Rutherford (Macmillan); Goodwin's Greek Grammar (Ginn & Co.).

History.

General History of Europe from the break-up of the Roman Empire to the present day.

No text-book is prescribed. Such a book as J. H. Robinson's Introduction to the History of Western Europe (new brief edition in one vol., Ginn & Co.) would furnish the candidate with an adequate basis of knowledge. G. B. Adams's European History, an Outline of its Development, would also be found useful. The student will find Robinson's Readings in European History a valuable supplement to whatever text-book he uses.

Candidates should read at least one of the works in each of the following groups:—

(1) Einhard's Life of Charles the Great (tr. S. E. Turner, American Book Co., or W. Glaister, Bell & Son); Memoirs of the Crusades (Everyman's Series); Froissart's Chronicles (Everyman's Series).

(2) Machiavelli's Prince (Everyman's Series); Macaulay's Essays on Machiavelli and Ranke's History of the Popes; Motley's Rise of the Dutch Republic Part III (Everyman's edition, vol. II).

(3) Macaulay's Essays on the War of the Succession in Spain and Frederick the Great; Carlyle's French Revolution.

(4) A. W. Kinglake's Eothen; G. M. Trevelyan's Garibaldi and the Thousand.

Latin.

Virgil, Aeneid I (Sidgwick, Camb. Univ. Press, edition with vocabulary); and Cicero, In Catilinam, I, II., IV.

The examination will include a paper on grammar, composition and sight translation.

The grammar recommended is New Latin Grammar by Sonnenschein (Oxford Clarendon Press).

Mathematics.

Algebra.—Hall and Knight's Elementary Algebra (omitting chapters 40-42, inclusive), or the same subject matter in similar text-books.

Plane and Solid Geometry.—Hall and Stevens' School Geometry to Theorem 98, inclusive.

Trigonometry.—Hall and Knight's Elementary Trigonometry, Chapters I to XIX, inclusive, omitting pages 212 to 230.

Physics.

A general knowledge of the more important principles of elementary physics will be required.

Text-book:—Kimball, College Physics (Henry Holt & Co., New York, 1912).

The student's notebook, setting forth his own laboratory work, certified by the Instructor and Headmaster of the School, must be forwarded to the Registrar for the examiners' valuation. Unless this is done, an examination on practical physics will have to be taken.

ADMISSION TO LAW, MEDICINE, DENTISTRY AND APPLIED SCIENCE

FACULTY OF LAW.—Two years in Arts (B.A. Course).

FACULTY OF MEDICINE.—Two pre-medical years, taken in the Faculty of Arts. These pre-medical years must include two years of Chemistry (covering both Inorganic and Organic), two of English, one of Physics and one of Biology. The other subjects are to be chosen from those offered in the first two years of the Faculty of Arts.

Those who intend to practise medicine in any of the Provinces of Canada will obtain information regarding registration and admission to study by corresponding with the Registrars of the several Provincial Medical Councils. (For names, see page 352.)

FACULTY OF DENTISTRY.—Two years in Arts in a recognized university, including lectures and laboratory work in Chemistry (Inorganic and Organic—two years), Physics (one year) and Biology (one year). In the case of those who intend to practise in the Province of Quebec these two years must be taken in a recognized English University in that Province.

FACULTY OF APPLIED SCIENCE.—Senior Matriculation, or First Year Arts, covering English, Mathematics, Physics, and any two of the following:—History, Biology, French, German, Greek, Latin, Spanish.

APPLICATIONS FOR ADMISSION TO ARTS

All students who wish to attend the First Year, or any subsequent Year, for the first time in the Faculty of Arts during the session 1928-29 must apply in writing to the Registrar before September 10th, 1928. This application must contain data showing the applicant's age, home address, nationality, religion, length of residence in Canada and other particulars. Blank forms may be obtained from the Registrar, McGill University, Montreal. The College is not bound to accept all students who may have succeeded in passing the required examinations. Not more than 375 will be admitted into the First Year for the session 1928-29.

ADMISSION TO ADVANCED STANDING

A student of another university applying for exemption from any subject or subjects which he has already studied is required to submit with his application a Calendar of the University in which he had previously studied, together with a complete statement of the course he has followed and a certificate of the standing gained therein.

AGE OF ADMISSION

Except under special circumstances, no student under the age of sixteen is admitted to the First Year courses in Arts, or under the age of seventeen to the Second Year.

PHYSICAL EXAMINATION, VACCINATION AND HEALTH

In order to promote as far as possible the physical welfare of the student body, all First and Second Year students and all students in other years, coming to the University for the first time, are required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education. Students of all Years who wish to engage in athletic activities are also required to be physically examined. The hours for this examination will be announced at registration.

Students who do not present themselves for this examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

By such examination, physical defects and weaknesses may be discovered. In such cases special exercises will be prescribed and instruction provided.

Re-examination will be held frequently throughout the session for those students who are of low category, or who are suffering from physical disabilities.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the medical examiner.

In accordance with the regulations of the Provincial Board of Health, all students (those who had been in attendance previously as well as those who had not) must, at the time of registration for the Session 1928-29, present a certificate of successful vaccination within the past seven years or of insusceptibility to vaccine within the past five years, and no student will be permitted to attend the University until such a certificate is presented.

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only. A leaflet concerning this service and the general work of the Department, together with the requirements in physical education for all students, will be distributed at the opening of the session.

REGISTRATION AND ATTENDANCE

1. REGISTRATION

The dates for the registration of students in the different Faculties for the session 1928-1929 will be found on page 60.

The complete regulations regarding registration are as under:—

1. Candidates entering on any course of study in the University, whether as undergraduates, partial students or graduate students, are required to attend at the office of the Registrar some time during the seven week days preceding the commencement of lectures (in the case of the Faculty of Arts during the three specified days referred to in the next regulation), in order to furnish the information necessary for the University records, and to register for the particular classes which they wish to attend.

2. On three special days during the week before the opening of the session, students who had been previously enrolled in Arts shall register in the Arts Building. Students in Applied Science who have completed the work of the lower Year, or Years will be free to register in the Registrar's office during the week preceding the opening of lectures, or they may do so with the others on the day immediately before the opening of the session.

Women students of the Faculty of Arts are also required to enter in the roll book of the Royal Victoria College their names, home addresses and addresses in Montreal. Students of the College not residing with their parents or guardians in Montreal, and who do not apply for residence in the College, are required to submit their plans for residence in writing to the Warden and to obtain written approval.

3. Students of all Years above the First will be allowed to register after the official registration days only on payment of a fee of $5.00 during the first week of the session, and of $10.00 during the second. After the fifteenth day of the session no student will be admitted, except by special permission of the Faculty concerned.

This fee will not be refunded, except for satisfactory reasons and by authorization of the Faculty concerned.

4. Upon registering, each student will be given cards of admission to the courses registered for, on presentation of which to the several instructors, his name will be entered on the class registers, or notification will be sent to the instructors by the Registrar, as may be found most convenient.

5. Students desiring to make changes in their choice of studies must make application to the Registrar to do so. If this is in accordance with the regulations, the change, or changes, will be made at once, otherwise the applicant must receive the endorsation of the Registration Committee or the Dean, as the case may be.

2. ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.* In Applied Science the Faculty has the authority of Corporation to modify this regulation except as regards students of the First Year, but only in so far as attendance at lectures is concerned. The regulations governing attendance in the Faculty will be bulletined at the opening of each session. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course in which attendance is compulsory shall not be permitted to come up for the regular examination in that course, and those whose unexcused absences in such courses have exceeded one-fourth of the total number of lectures must repeat the work in that course.

Excuses on the ground of illness or domestic affliction shall be dealt with only by the Deans of the respective Faculties.

It is to be clearly understood that excuses for absences in excess of one-eighth will be entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates will be filed, and, if acceptable, the Dean shall give the student a statement certifying to the absences covered, and this must be shown to all the professors concerned as promptly as possible.

2. A record shall be kept by each professor or lecturer, in which the presence or absence of students shall be carefully noted. This record shall be submitted to the Faculty when required.

3. Credit for attendance on any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned the student may, at the discretion of the Professor, be required to leave the room. Persistence in any of the above offences against discipline shall, after admonition by the Professor, be reported to the Dean of the

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* Physical education is included under this regulation.

Faculty concerned. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend from classes.

4. Lectures will commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they will, on reporting themselves at the close of the lecture, be marked "late." Two lates will count as one absence. Lectures end at five minutes before the hour.

In cases where it is impracticable to record late attendance, students who are not present at the commencement of these lectures will be marked absent.

SCHOLARSHIPS, MEDALS AND PRIZES

GENERAL REGULATIONS IN ARTS

1. No student can be awarded more than one scholarship in Group C or D; in Groups A and B, however, a student may hold several but only up to a total value of $500.

2. Scholarships will not necessarily be awarded to the candidates who have obtained the highest marks. An adequate standard of merit will be required.

3. If in any College Year there be not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another year.

4. A successful candidate must, in order to retain his scholarship, proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the scholarships will be paid in four instalments, viz.:—In October, December, February and April, about the 20th of each month.

GROUP A.—ENTRANCE SCHOLARSHIPS

The P. S. Ross Exhibition

This exhibition, of the value of $100, was founded by Mr. P. D. Ross, B.A.Sc., in memory of his late father, Mr. P. S. Ross, and is given through the Ottawa Valley Graduates' Society. It is awarded annually to the candidate from the Ottawa Valley who obtains the highest percentage at the June matriculation examination and attends the University during the ensuing session. Candidates must apply before July 1st.

The Ottawa Valley Graduates' Society's Exhibition

This exhibition, of the value of $75, will be awarded annually to the candidate from the Ottawa Valley who obtains the second highest percentage at the June matriculation examination and attends the University during the ensuing session. Applications must be made before July 1st.

The Dr. H. Ami Exhibition

This exhibition, of the value of $50, will be awarded annually to the candidate from the Ottawa Valley who obtains the third highest percentage at the June matriculation examination and attends the Uni-

versity during the ensuing session. Applications must be made before July 1st. This exhibition is given through the Ottawa Valley Graduates' Society.

The Sidney J. Hodgson Exhibitions

These exhibitions were founded by Arthur J. Hodgson, Esq., in memory of his late son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. One of these exhibitions is of the value of $250 and the other of $175. They are open to pupils of the Westmount High School who have been in attendance for at least one year, and will be awarded on the result of the June matriculation examination to the two pupils who obtain the highest and the second highest percentage, respectively, on the subjects required for entrance to the Faculty of Arts, and who attend the University during the ensuing session.

Bursaries Granted by the Imperial Order of the Daughters of the Empire

These bursaries are of the annual value of $300, are tenable for four years at any university and are open to the sons and daughters of deceased or totally disabled soldiers and sailors. One is available for each Province each year.

Full information can be obtained by writing to the Head Office of the Order for Canada, 238 Bloor Street East, Toronto, 5, Ont.

Scholarship Granted by the Graduates' Society of the District of Bedford

This scholarship, of the value of $120, will be awarded annually to a "matriculated student in Arts whose parents reside in the District of Bedford, and whose candidature has been approved by a committee of the Society."

Narcissa Farrand (Mrs. N. Pettes) Scholarship

This scholarship, of the value of $300 ($150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of $7,000 out of the Narcissa Farrand Fund, will be awarded annually to the candidate from the Eastern Townships who obtains the highest marks at the Arts matriculation examination in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination. Intending competitors must apply to the Registrar before July 1st each year.

The Trafalgar Scholarship

Founded in 1913 by certain friends and former pupils of Miss Grace Fairley, to signalize her long and faithful service to education in Montreal, and particularly as head of the Trafalgar Institute. It is of the value of $135, is tenable for one year only, and will be awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June matriculation examination and matriculates as an undergraduate in the Faculty of Arts.

Scholarship for Holders of Intermediate Diplomas

A scholarship of $150 is offered annually in the Faculty of Arts to holders of Intermediate diplomas obtained after a course of study in Macdonald College, under the following conditions:—

(1) Candidates must apply through the Dean of the School for Teachers before May 1st.

(2) They must satisfy the entrance requirements of the Faculty of Arts and declare their intention to proceed to a First Class High School diploma following the course prescribed by the University.

The scholarship will be awarded on the academic subjects of the examination for the Intermediate diploma; but although the practice marks will not be taken into account directly, the opinion of the Macdonald College staff as to the general fitness of the applicant for a University course will be considered. In case there is no applicant from the graduating class in any year, applications from graduates of previous years will be considered on their merits.

Holders of this scholarship will be permitted to count practice teaching and post-graduate work towards the fulfilment of their agreement to teach for a period of three years in the Province of Quebec.

The Sir William Macdonald Entrance Scholarships in Arts

The following scholarships, endowed by the late Sir William Macdonald, tenable in the Faculty of Arts, and open to men only, will be offered for competition in June each year:—

Five scholarships, of the value of $150 each (three open to candidates not residing on the Island of Montreal), will be awarded on the result of the matriculation examination in June.

Application must be made before July 1st.

University Entrance Scholarships in Arts

Three scholarships of the value of $100 each and two of the value of $75.00 each (one of each value open to candidates not residing on

Montreal Island) are offered for entrance to the Faculty of Arts, and will be awarded on the result of the matriculation examination in June.

Application must be made before July 1st.

Royal Victoria College Entrance Scholarships

Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of $200 and one of $100. These will be awarded on the result of the matriculation examination. Application must be made to the Registrar before July 1st.

The Hon. Robert Jones Scholarship

The HON. ROBERT JONES SCHOLARSHIP, having a value of One Hundred and Twenty-five Dollars ($125) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts or of Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Arts or Applied Science, as the case may be. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and the scholarship will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

The Robert Bruce Bursaries and Scholarships

Under the will of the late Robert Bruce, of the City of Quebec, provision is made for the establishment of bursaries and scholarships.

One bursary, of the value of $100, will be open each year to "young men and women of promising abilities but of straitened circumstances who have qualified for entrance and are taking a course of study in Arts or Science."

Two scholarships have also been established; one open to candidates for entrance to the University, of the value of $100, tenable for one year, awarded for high standing at the Matriculation Examination; and the other for high standing in the examinations at the end of the First Year. The latter is of the value of $100 a year for three years.

For the first twenty-five years students of Scottish extraction will be given the preference.

The Lord Atholstan Scholarship

1. This scholarship, of the value of $1,000, has been donated by Right Honourable Lord Atholstan for competition among the pupils of Huntingdon Academy who have taken their full high school course of

study in that institution. It will be awarded to the pupil in this category who obtains the highest standing at the June Matriculation Examination for entrance to any Faculty and who attends McGill University during the subsequent session.

2. The holder of the scholarship shall receive $250 per year for four years, but the scholarship shall be forfeited at any stage through failure to satisfy the regulations of the University regarding advancement from year to year. The amount of the annual scholarship shall be paid to the scholar in four equal instalments.

The Edith Silver Memorial Scholarship

1. This scholarship will be awarded on the result of the June University Matriculation examination or the High School Leaving Examination of the Province of Quebec covering the subjects required for admission to the Faculty of Arts.

2. It is open to women students who obtain over 70% of the total marks possible and will be awarded to the applicant who stands highest in this division and who at the same time needs assistance to undertake the course. Applications must be received before July 1st.

The Isabella C. MacRae Scholarship

By the bequest of $3,021.17 from the late Isabella C. MacRae, a scholarship has been founded, open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no applicants from this locality for six years, the scholarship will be open to any resident in Ontario.

Canadian Pacific Railway Scholarships

Scholarships covering one year's tuition in the Faculty of Arts and four in the Faculty of Applied Science are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons of employees, and the award is made on the result of the Junior Matriculation Examination in June. For full particulars as to number of scholarships available, etc., application should be made to C. H. Buell, Esq., Staff Registrar and Secretary, Pension Department, C.P.R. Offices, Montreal.

The Beatty Scholarships

Two scholarships, of the value of $500 each, have been founded by Dr. E. W. Beatty, Chancellor of the University, tenable in the Faculty

of Arts, one for Classics (Latin and Greek) and the other for Mathematics. The award will be made on the standing of the candidates in the Junior Matriculation Examination and the result of a special examination in June. Commencing with 1928 this special examination will, in the case of Classics, be in the form of prose and sight work added to the ordinary papers for Matriculation, and, in the case of Mathematics, of a special three-hour paper on topics of Algebra, Geometry and Trigonometry of the standard of Advanced Mathematics as set for Junior Matriculation. (See page 90.)

Applications for these scholarships must be received before May 15th.

These scholarships are open only to male students born in Canada, educated in Canadian schools and whose parents, moreover, are British or Canadian born.

Affiliated Theological College Scholarships

THE UNITED THEOLOGICAL COLLEGE SCHOLARSHIPS.—The Board of Management of the United Theological College offers scholarships for the payment of fees of undergraduates in Arts who are registered at this College as in training for the study of theology with a view to the Christian Ministry and who have passed with credit the sessional examinations. For particulars, application should be made to the Registrar, 770 University Street, Montreal.

PRESBYTERIAN COLLEGE SCHOLARSHIPS.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts who are registered at the Presbyterian College as in training for the study of theology with a view to the Ministry and who have creditably passed the sessional examinations. For further particulars, application should be made to the Registrar, the Presbyterian College, Montreal.

The Ellen Ballon Piano Scholarship

Mainly through the instrumentality of Miss Ellen Ballon, an ex-student of the Conservatorium of Music, a fund has been created amounting to $1,501.87 to provide a scholarship in the Faculty of Music of the value of $200 per year until principal and interest are exhausted. The first award will be made to the student applying for entrance who shall be considered most deserving, both as regards ability and financial circumstances. In subsequent years it will be awarded either to the original holder or to a student entering the First Year, whichever may seem to the Faculty most worthy on the two grounds mentioned above.

GROUP B.—SCHOLARSHIPS IN ARTS AWARDED ON THE RESULT OF THE SESSIONAL EXAMINATIONS

THE JANE REDPATH SCHOLARSHIP.—Founded by the late Mrs. Redpath, of Terrace Bank, Montreal, for the maintenance of a scholarship in Arts. It will be awarded on the result of the sessional examination of the First Year to the student who makes the highest average on the year's work. Value of scholarship, $115.

THE BARBARA SCOTT SCHOLARSHIP.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value, $115.

THE JAMES DARLING MCCALL SCHOLARSHIP.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the close of the war, in which he had served with distinction. This scholarship will be awarded each year to a male student of the Third Year Arts who has "given proof of scholarship and ability as an honour student in the subject of English and Philosophy." It is of the value of $275.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship has been founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of the First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916. It is of the value of $250 and will be awarded annually on the result of the examination in English and Economics of the Second Year, and is subject to the condition that the holder take an honour course in English, with Economics as a minor subject in his Third Year, or the Honour Course in English and Economics, should such be established. It is open to male students in the Faculty of Arts professing the Christian religion.

MACKENZIE SCHOLARSHIPS.—Four scholarships, known as the Mackenzie Scholarships, are awarded annually in the Department of Economics and Political Science. Two of these, of the value respectively of $100 and $50, tenable for one year, are awarded on the results of the Second Year examination on Political Economy (Economics, Course 1), but no student is eligible who has not completed the work of this Year. The tenure of the scholarships is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Third Year. The other two scholarships, of the value respectively of $100 and $50, are awarded on the result of the honour examination of the Third Year in Economics and Political Science. The scholarships will not be awarded except on satisfactory evidence of merit; their tenure is conditional upon the holders pursuing their studies in the honour work in Economics and Political Science of the Fourth Year.

A Fourth Year Mackenzie scholarship may be held by a student who holds another; a Third Year scholarship cannot.

THE SIR WILLIAM DAWSON SCHOLARSHIP.—Given by the New York Graduates' Society; value, $60.

THE DR. BARCLAY SCHOLARSHIP.—Awarded in the Classical Department; value, $50.

ROBERT BRUCE SCHOLARSHIP.—From a fund, created by the will of the late Robert Bruce, of Quebec City, one scholarship of $100 annual value and tenable for three years will be awarded for high standing in the examinations at the end of the First Year.

THE REFORD SCHOLARSHIP.—The interest on this fund, amounting to about $275 per annum, will be equally divided each year and placed at the disposal of the Departments of English and Philosophy.

THE HOUSTON SCHOLARSHIP.—Founded by the will of the late Thomas Houston, for the purpose of establishing a scholarship for French students studying for the Presbyterian Ministry. It is open only to undergraduates in the Faculty of Arts under the above restriction and will be awarded on the result of the sessional examination without regard to Year. The value of the scholarship is about $60.

THE HOWARD MURRAY SCHOLARSHIPS.—Two scholarships of the value of $100.00 each will be awarded annually for the next five years through the kindness of Howard Murray, Esq., to the two best students in French in the Third Year Commerce who continue their studies in this subject in the Fourth Year.

GROUP C.—SECOND YEAR SCHOLARSHIPS IN ARTS AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER

Six scholarships, ranging in value from $100 to $150 each, will be offered for competition to students entering the Second Year in September, 1928.

The subjects of examination are divided into two groups, as follows:—

Group I.—Greek, Latin, French, German, English, History.

Group II.—Mathematics, Physics.

Candidates are required to offer two major subjects and one minor subject. The two major subjects must be selected from the same group, the minor subject from either group, the examination in the major subject being more extensive than that in the same subject presented as a minor subject. Two scholarships of $150 each and two of $100 each are offered to candidates taking their major subjects from Group I, and one of $150 and one of $100 to candidates taking their major subjects from Group II.

One of these scholarships is "The Charles Alexander Scholarship," for men only, and is awarded for "classics and other subjects."

The above scholarships are open to all undergraduates in Arts, whether they are taking the B.A. or the B.Sc. course.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

REQUIREMENTS IN EACH SUBJECT

Greek.

(As a Major Subject)

I. (a) Homer, Odyssey VI.

(b) Lysias, "On behalf of the Soldier and on behalf of the Cripple."

Lysias, Selected Speeches, ed. Shuckburgh (Macmillan), Nos. III and XIII.

II. Translation at sight.

III. History:—Edmonds, Greek History for Schools (Camb. Univ. Press), to the end of the war with Persia.

(As a Minor Subject)

The same as above, omitting I (b) and III.

Latin.

(As a Major Subject)

I. (a) Extracts from Cicero, Walford (Clarendon Press); Anecdotes from Grecian History, pages 1-51.

(b) Horace, Odes II.

II. Composition and translation at sight.

III. Roman History:—How and Leigh, from the foundation of Rome to the end of the Second Punic War.

(As a Minor Subject)

The same as above, omitting I (b) and III.

French.

(As a Major Subject)

(a) Grammar; (b) translation at sight of an English passage into French; (c) French essay on a prescribed subject; (d) translation of passages taken from the prescribed texts; (e) a critical story of the following texts, tested by questions in the French language to be answered in French:—

Corneille, Cinna (Holt); Molière, La Malade Imaginaire (Macmillan); Thiers, Expédition de Bonaparte en Egypte (Holt); Loti, Pêcheurs d'Islande (Rivington).

(*As a Minor Subject*)

The same as above, omitting Molière and Thiers.

German.

(*As a Major Subject*)

(a) Grammar; (b) translation at sight from German into English, and from English into German; (c) critical study and translation of the following texts:—

Schiller, Maria Stuart (Heath & Co.); Fulda, Talisman (Heath); Hauff, Lichtenstein (Heath).

(*As a Minor Subject*)

The same as above, omitting Schiller.

English.

(*As a Major Subject*)

Shakspere, Twelfth Night (ed. Macmillan); Macaulay, History of England, Vol. I, Chap. 3 (England in 1685); Scott, Marmion; Thackeray, Pendennis; George Eliot, The Mill on the Floss; Tennyson, The Coming of Arthur, The Last Tournament.

(*As a Minor Subject*)

The Scott and Tennyson prescribed above.

History.

(*As a Major Subject*)

J. A. Symonds: Short History of the Renaissance in Italy (one volume); M. Creighton: A History of the Papacy from the Great Schism to the Sack of Rome, Book VI; More's Utopia.

(*As a Minor Subject*)

J. A. Symonds: Short History of the Renaissance in Italy (one volume).

Mathematics.

(*As a Major Subject*)

Plane Geometry.—Godfrey and Siddon's Modern Geometry, omitting appendices.

Algebra.—Hall and Knight's Higher Algebra; also Fine's College Algebra (Ginn & Co.), pages 424 to 511.

Plane Trigonometry.—Carslaw's Plane Trigonometry (Macmillan & Co.), except Chap. 13.

(*As a Minor Subject*)

The mathematics of the First Year general course.

Physics.

(As a Major Subject)

Duncan and Starling's "Heat, Light and Sound" (Macmillan); and Bragg's "The World of Sound" (Bell).

(As a Minor Subject)

Kimball's "College Physics" (Henry Holt & Co.).

GROUP D.—THIRD YEAR SCHOLARSHIPS IN ARTS, AWARDED ON THE RESULT OF A SPECIAL EXAMINATION IN SEPTEMBER

The following five scholarships, of the value of $300 ($150 per year for two years), will be open for competition to students entering the Third Year in September, 1928:—

One for English and History and another language.

One for Latin or Greek and another language† (English excepted).

One for French or German and another language† (English excepted).

Two for Mathematics and Physics.

Of the above five scholarships two are known as "Sir William Macdonald Scholarships" and are open to men only.

The four following scholarships, of the value of $150 each, are also offered for competition to students entering the Third Year:—

One for Philosophy.

One for Psychology.

One for Chemistry.

(Of the above three scholarships, one is called a "Sir William Macdonald Scholarship" and is open to men only.)

One for Biology.

(This scholarship is called "The Major Hiram Mills Scholarship." It is open to both men and women.)

A Bursary of $25 will be awarded to that one of the holders of these three scholarships who is considered most deserving on entering the Fourth Year.

An exhibition of $80, to be known as the Hannah Willard Lyman Exhibition, will also be awarded annually in the Fourth Year, to the best woman student who may have been the holder of a Third Year scholarship in biology or chemistry or philosophy. Should there be no

† The language not chosen in the first instance may be taken as the second language.

sufficiently deserving candidate, this exhibition may be awarded at the beginning of the Third Year to a woman candidate who may fail to obtain one of the five regular scholarships offered to Third Year students.

In the award of Third Year scholarships, the Second Year standing of candidates, in the subjects selected, will be taken into account.

In the event of no candidate of sufficient merit presenting himself, the scholarship assigned to any group of subjects may, at the discretion of the Faculty, be awarded in another group, whether a scholarship has been already assigned to that group or not.

Notice of intention to take the examination for these scholarships must be sent to the Registrar before July 1st.

REQUIREMENTS IN EACH SUBJECT

Greek.

Translation at sight.

Study of the following texts:—Euripides, Medea; Plato, Crito.

History:—Edmonds' Greek History for Schools (Camb. Univ. Press), from the end of the war with Persia to the death of Alexander.

Latin.

Prose composition; translation at sight.

Study of the following texts:—Extracts from Cicero, Walford (Clarendon Press); Anecdotes from Grecian and Roman History, pages 1-104; Virgil, Aeneid VI; Cicero, Pro Archia.

Roman History:—How and Leigh, from the end of the Second Punic War to the death of Cæsar.

English and History.

Literature.—Shakespeare, Hamlet (ed. Deighton, Macmillan); Milton, Paradise Lost, Books I and II, ed. Macmillan (Macmillan); Ruskin, Sesame and Lilies, Crown of Wild Olive; Arnold, Essays in Criticism, Second Series (Macmillan's Colonial Library).

Composition.—The candidate will be required to write an essay on some subject connected with the literature or history prescribed. High marks will be given for this subject.

History.—W. H. Prescott: The Conquest of Mexico; Francis Parkman: Pioneers of France in the New World, Montcalm and Wolfe.

French.

(a) Translation at sight from French into English, and from English into French; (b) translation of passages from the prescribed texts; (c) questions on the subject matter of the following texts, and the

lives of their authors:— Molière: Le médecin malgré lui (Heath); Racine; Andromaque (Heath); Rostand; Cyrano de Bergerac (Holt); Hugo: Ruy Blas (Holt); Rudmore Brown: French short stories (Oxford); Taine: L'Ancien Régime (Heath).

The entire examination will be held in the French language.

German

(a) Translation at sight from German into English, and from English into German; (b) critical study and translation of the following texts:—Goethe, Dichtung und Wahrheit, Books I, II, III (Heath); Schiller, Das Lied von der Glocke (Holt), and Wallenstein's Lager (Holt); Eichendorff, Aus dem Leben eines Taugenichts (Holt); Heine, Prose Selections (Macmillan).

Mathematics and Physics.

Calculus:—Fundamental principles relating to functions, limits and continuity; differentiation and integration of ordinary functions; geometrical applications; maxima and minima; curvature; areas; volumes; length of curves; mean values; approximate integration; Taylor's and MacLaurin's Series.

Books for reference:—Murray's Differential and Integral Calculus (or similar text books) and, most especially, Lamb's Infinitesimal Calculus, Chaps. I-VIII inclusive, and Arts 133-135, 183, 184.

Analytic Geometry:—Plotting of curves and finding their slopes, and the analytical treatment of the conic sections.

Books for reference:—Tanner and Allen's Analytic Geometry (or similar text books) and, most especially, C. Smith's Conic Sections, Chaps. I-IX inclusive (omitting Articles 52, 54-64), and Arts, 187, 188, 222-229 inclusive.

Higher Trigonometry.—Carslaw's Plane Trigonometry.

Physics.—Maxwell's "Matter and Motion," excluding appendix (S.P.C.K.), and Maxwell's Theory of Heat (Longmans).

Philosophy.

Locke's Essay Concerning Human Understanding, Book I and Book II, chaps. 1-23; Berkeley's Principles of Human Knowledge, paragraphs 1-33 inclusive, and the Three Dialogues Between Hylas and Philonous; Jevon's Lessons on Logic or Mellone's Text Book of Logic, complete. The selections from Locke and Berkeley in Rand's Modern Classical Philosophers (Houghton Mifflin & Co.) are sufficient to cover the work required in Locke and Berkeley, except the Three Dialogues named.

Psychology.

Outlines of General Psychology, Gault and Howard.

Modern Inorganic Chemistry (J. W. Mellor, 1912 edit.).

Chemistry.

Subject of Essay.—"Aqueous Solution."

Biology.

Animal Biology.—What Evolution Is, G. H. Parker (Harvard University Press).

Plant Biology.—Candidates for this scholarship will be expected to pursue an independent study of classification of plants during the summer months. An original collection of 75 species must be made and properly identified, and must form a basis of an understanding of the general interrelations of the larger groupings. A few lectures will be given during the latter part of the session for the benefit of those who wish to undertake this work. These will deal with the rationale of taxonomy and methods of collection and study. Advice as to the proper literature will also be given at this time.

MEDALS IN ARTS

Medals will be available in the final Honours examination for the students who take the highest honours of the first rank in the subjects stated below, and who shall have passed creditably the ordinary examination for the degree of B.A. or B.Sc., provided they have been recommended therefor to the Corporation by the Faculty, on the report of the examiners:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakespere Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her late son, Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916.)

The Lieutenant-Governor's Silver Medal, to be awarded to the student standing highest in the Final Year Honours in the Department of History.

The Lieutenant-Governor's Bronze Medal, to be awarded to the student standing highest in the Second Year in Latin and Mathematics.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of Romance Languages.

If there be no candidate for any medal, or if none of the candidates fulfill the required conditions, the medal will be withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

PRIZES IN ARTS

1. The Neil Stewart Hebrew Prize.—An annual prize of $15 is open to all undergraduates and graduates of this University, and also to graduates of any other university who are students of theology in some college affiliated to this University. It will be awarded on the result of the sessional examination in Hebrew of the Second Year.

2. Early English Text Society's Prize.—This prize will be awarded for proficiency in the subjects of the language group in the English honour curriculum of the Third and Fourth Years.

3. New Shakespere Society's Prize.—This prize, open to graduates and undergraduates, will be awarded for a critical knowledge of the following plays of Shakespere:—Hamlet, Macbeth, Othello, King Lear.

4. Charles G. Coster Memorial Prize.—This prize, of the value of $25, and intended as a tribute to the memory of the late Rev. Chas. G. Coster, M.A., Ph.D., Principal of the Grammar School, St. John, N.B., is offered for competition by Mr. Colin H. Livingstone, B.A., to undergraduates from the Maritime Provinces of Canada. It is awarded on the decision of the Dean of the Faculty of Arts to that student in Arts from these Provinces who shows the greatest proficiency in the examinations at the end of the session.

5. Annie Macintosh Prize.—The income of the sum of $1,130 ($425 of which was subscribed by the pupils and friends of the late Miss Annie Macintosh, and $618.97 bequeathed by the late Miss I. G. Macintosh) is offered as a prize or prizes, to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

6. Penhallow Prize.—The income of the sum of $1,100, collected by the Arts Undergraduates' Society in 1911, will be awarded annually as a prize in the Department of Botany.

7. Henry Chapman Prize.—This prize, of the value of $15, is given in such modern languages as may be taught in the Faculty of Arts, other than English, and Hebrew shall also be included.

8. The Chester Macnaghten Prize, of the value of $25 in books, established by the late Russell E. Macnaghten, Esq., M.A., in memory of his late uncle, will be awarded annually, through the University Literary and Debating Society, for reading in English.

9. Prizes in Hebrew.—(a) The O. and S. Fitch prize, value $50.00; (b) the A. J. Freiman prize, value $100.00; (c) the A. Pierce prize, value $100.00.

SCHOLARSHIPS AND PRIZES IN APPLIED SCIENCE

I. ENTRANCE SCHOLARSHIPS

The following scholarships are open to students entering the Faculty of Applied Science.

The Lord Atholstan Scholarship, valued at $250.00 per annum for four years, donated by the Rt. Hon. Lord Atholstan for competition among the pupils of Huntingdon Academy.

Two Robert Bruce Bursaries, valued at $100.00. One of these is open to young men and women of promising ability but of straitened circumstances who have qualified for entrance and are taking a course in Arts or Science; the other is awarded for high standing in the Matriculation Examination.

The Sydney J. Hodgson Exhibition of $250.00 and $175.00, open to pupils of the Westmount High School.

The Hon. Robert Jones Scholarship, valued at $125.00 per annum, granted from time to time to some poor student for the full term of study in the Faculty. See Arts Announcement for details.

The Isabella MacRae Scholarship, open to students resident in Maxville, Ont., or failing such for six years, to other Ontario students.

The P. S. Ross, Ottawa Valley Graduates, and Dr. H. M. Ami Exhibitions, values, $100.00, $75.00 and $50.00 respectively, given through the Ottawa Valley Graduates' Society.

Canadian Pacific Railway Scholarships, covering one year's tuition in Arts and four in Applied Science, open to apprentices and other employees of the company and to minor sons of employees.

Bursaries granted by the Imperial Order of the Daughters of the Empire. These are of the annual value of $300.00, are tenable for four years at any university and are open to the sons and daughters of deceased or totally disabled soldiers and sailors. One is available for each Province each year. Information can be obtained from the Secretary of the National Chapter of Canada, 238 Bloor Street E., Toronto 5, Ont.

More detailed information on the above and other scholarships may be obtained from the Registrar of the University.

II. AWARDED ON THE RESULT OF SPECIAL EXAMINATIONS

1. Two prizes, each of $10.00, presented by J. M. McCarthy, Esq., B.A.Sc., to students entering the Third Year, for proficiency in levelling and transit work.

2. Messrs. Babcock & Wilcox, Limited, offer a scholarship of the value of $200.00. This Scholarship is open to undergraduates in the

Third and Fourth Year courses in Mechanical Engineering who intend to make a special study of steam engineering, and is tenable for one year. Should it be awarded to an undergraduate in the Third Year course, it may be re-awarded for a second year at the discretion of the committee making the award. The conditions under which this scholarship is awarded may be ascertained on application to the Dean of the Faculty.

The scholarship is open for competition in October, 1929.

3. The Jenkins Bros., Ltd., Scholarship, presented by Messrs. Jenkins Bros., Ltd., of Philadelphia and Montreal, and having an annual value of $200.00, is open to all engineering students entering the Fourth Year of their course. The scholarship will be awarded on the basis of academic standing and personality.

III. AWARDED ON THE RESULTS OF THE SESSIONAL EXAMINATIONS OR FOR SPECIAL THESES

1. A British Association exhibition of $50.00 and a prize of $25.00 at the end of the Third Year, to the students who obtain the highest and the second highest aggregate marks, respectively, in the sessional examinations in Strength of Materials and Mechanics of the Third Year.

2. Three prizes of $25.00, $15.00 and $10.00, at the end of the Second Year, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Analytic Geometry, Calculus and Mechanics of the Second Year.

3. A Scott exhibition of $50.00, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and two prizes of $25.00 and $15.00, to the students obtaining the highest, and the second and third highest aggregate marks, respectively, in the sessional examinations in Mathematics, Descriptive Geometry and Physics of the First Year.

4. A prize of $50.00, presented by Mr. James Tighe, B.A.Sc., for research work in Hydraulics.

5. An exhibition offered to graduates by Mr. A. E. Childs, M.Sc., for a special research on " The flow of gas through pipes under pressure."

6. A prize of $25.00, presented by Messrs. Anglin Norcross, Ltd., to the student obtaining the highest marks in Architectural Drawing in the Second Year (No. 34) of the Department of Architecture.

7. A prize of $25.00, presented by Messrs. Anglin Norcross, Ltd., to the student obtaining the highest marks in Architectural Engineering in the Department of Architecture.

8. The Louis Robertson Prize, founded by Mr. and Mrs. John A. Robertson, in memory of their son John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916, to be awarded to the undergraduate student who ranks highest in Design in the Final Year of the course in Architecture.

9. A prize of $25.00, presented by P. J. Turner, Esq., to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.

10. Prizes given by the Montreal Light, Heat & Power Consolidated to Fourth Year students in the Department of Electrical Engineering, amounting to $200.00.

11. The following prizes are offered for the best summer essays:—

To the students of the Civil Engineering course, a prize of $25.00, from a friend.

To the students of the Metallurgical Engineering course, a prize of $25.00, presented by Milton L. Hersey, Esq., D.Sc.

To the students of the Mechanical Engineering course, a prize of $25.00, presented by the Crosby Steam Gauge & Valve Co.

To the students of the Mining Engineering course, a prize of $25.00, presented by Dr. J. B. Porter.

12. There are offered each year by the Engineering Institute of Canada five student prizes of twenty-five dollars each, for the best paper in each of the branches of engineering—civil, mechanical, electrical, mining and chemical—received from a student member of the Institute. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars from R. J. Durley, Secretary, 2050 Mansfield Street, Montreal.

13. Three prizes, one of $25.00 and the President's gold medal, one of $15.00 and one of $10.00, are offered annually for the best papers submitted to the Canadian Institute of Mining and Metallurgy by student members of the Institute.

14. The sum of $50.00 has been voted by the Undergraduates' Society of the Faculty of Applied Science, to be given as prizes for the best papers read before the Society during the session.

15. A Sir William Dawson Exhibition, given by the New York Graduates' Society: value, $60.00.

16. A prize of $25.00, offered by the Canadian Section of the Society of Chemical Industry, is awarded for the best essay on some important phase of chemical industry. Further particulars from the Secretary of the Society.

17. Certificates of merit are given to the students taking the highest place in the sessional and degree examination.

IV. AWARDED AT THE DISCRETION OF THE FACULTY

1. The Hon. Robert Jones Scholarship, having a value of One Hundred and Twenty-five Dollars ($125.00) per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Applied Science."

Application for this scholarship should be made through the Dean of the Faculty of Applied Science. In awarding the scholarship the standing of the student in the matriculation examination will be considered, and it will not be continued if the standing of the student at any time during his course proves to be unsatisfactory.

2. The Baylis Scholarship, founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of $100.00, is awarded to some student who is in need of financial assistance to complete his course on entering the Second Year of the Faculty. The scholarship will be continued during the Third and Fourth Years, if the standing of the student continues to be satisfactory.

Application should be made through the Dean of the Faculty of Applied Science.

3. The late Dr. James Douglas, who was a member of the Board of Governors, provided for twelve or more tutorial bursaries in the Faculty of Applied Science. In assigning these bursaries account will be taken of the circumstances of the applicants as well as of their academic standing.

These bursaries have a value of $100.00 per annum, and carry the obligation of giving tutorial instruction equivalent to one evening a week, to the satisfaction of the Faculty Committee. Students in the Third and Fourth Years of Applied Science are eligible.

MEDALS AND LOAN FUNDS IN APPLIED SCIENCE

1. MEDALS

1. A British Association medal is open for competition to students of the graduating class in each of the Engineering courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examination. The British Association medals and exhibition were founded by the British Association for the Advancement of Science in commemoration of the meeting held in Montreal in the year 1884.

2. A gold medal and three prizes, offered by the Canadian Institute of Mining and Metallurgy. For further particulars, see pages 253 and 318.

3. The Lieutenant Governor's Silver Medal is awarded to the student ranking highest in the Final Year Examinations of the Department of Architecture, provided his work is considered of sufficient merit.

The Lieutenant Governor's Bronze Medal is awarded to the student obtaining the second place in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

2. LOAN FUNDS

1. A fund has been established by the Applied Science Class of 1899, to be known as "The Class of 1899 Fund," for the purpose of aiding, each year, one or more students who, upon the completion of their Second Year work, require assistance to enable them to finish their course of study. The loans from this fund will be repayable after graduation. Applications should be made through the Dean.

2. The George Henry Frost Fund was created by the gentleman whose name it bears for the purpose of aiding students who, when commencing the work of the Second or a subsequent year in the Faculty of Applied Science, require assistance to enable them to complete their course. Loans from this fund will bear interest at three per cent and will be repayable within three years after graduation. In making loans from this fund the academic standing of the students will be taken into account. Applications should be made through the Dean.

PRIZES, SCHOLARSHIPS AND MEDALS IN LAW

The "Elizabeth Torrance Gold Medal," founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The Montreal Bar Association offers a prize of $50.00 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of $15.00 to the student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition," of the value of $50.00, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

Other prizes may be awarded at the discretion of the Governors.

The "Macdonald Travelling Scholarship" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the

testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is the income derived from a capital sum of $20,000, and the scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class who has obtained first or second class honours in the Final Examination.

Women students are not eligible for a Macdonald Scholarship so long as the law excludes them from admission to the Bar in the Province of Quebec.

The "Thomas Alexander Rowat Scholarship" was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. It is of the value of $120, and is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in 1928.

Students in the Faculty are eligible for election to the Rhodes Scholarships tenable at the University of Oxford for a term of three years.

The Lieutenant Governor's Silver Medal will be awarded to the student who stands highest in the Final Examination in Roman Law.

The Lieutenant-Governor's Bronze Medal will be awarded to the student who stands highest in the First Year course in Obligations.

No medals, prizes or scholarship will be awarded, if in the opinion of the Faculty there is no candidate of sufficient merit.

MEDALS, PRIZES AND SCHOLARSHIPS IN MEDICINE

Medals

The Holmes Gold Medal, founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, Esq., M.D., LL.D., one time Dean of the Faculty of Medicine, is awarded to the student graduating with the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who wins the Holmes Medal has the option of exchanging it for a bronze medal and the money equivalent of the gold medal.

The Wood Gold Medal, founded by Casey A. Wood, M.D., LL.D., awarded to the student graduating with the highest aggregate number of marks in the clinical examinations of the Final Year. The winner of the Holmes Medal is not permitted to compete for this medal.

The Sutherland Gold Medal, founded in 1878 by the late Mrs. Sutherland, in memory of her late husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in Bio-chemistry, together with a creditable examination in the primary branches.

The Lieutenant Governor's Silver Medal, to be awarded to the student who obtains the highest marks in General Medicine at the end of the Fifth Year.

The Lieutenant Governor's Bronze Medal, to be awarded to the student who obtains the highest standing in the Final Examination in Physiology.

Prizes

The Joseph Hils Prize. (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.).—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Pharmacology.

The Joseph Morley Drake Prize. (Founded by the late Joseph Morley Drake, M.D.).—A prize in books, to be awarded to the student who obtains the highest number of marks at the Final examination in Pathology.

Primary Prize. A prize in books awarded for the best aggregate standing in the subjects of the first division (Anatomy, Histology, Physiology, Biochemistry and Bacteriology).

The F. Slater Jackson Prize. An annual prize of $50.00, founded by Mr. and Mrs. H. F. Jackson in memory of their son, the late F. Slater Jackson, M.D. The prize is awarded on the result of a special examination, written and oral, in Histology and Embryology.

The Alexander D. Stewart Prize. An annual prize in books, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his profession.

Fellowships

The A. A. Browne Memorial Fellowship. The sum of $10,000 has been received by the Faculty from the committee of the A. A.

Browne Memorial Fund. With this sum a fellowship has been established, to be known as the "A. A. Browne Memorial Fellowship." This fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynæcology.

The James Douglas Research Fellowship.—The sum of $25,000 was donated by the late Dr. James Douglas, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.

The James Douglas Studentship.—A studentship in pathology, given by the late Dr. James Douglas, open to McGill graduates only, tenable for six years and of the value of $1,250 for the first year, increasing to $2,500.

The James Cooper Fellowships for the Study of Internal Medicine.—This fund of $60,000 was donated in 1912 by the will of the late James Cooper of Montreal to promote study and research in Internal Medicine.

The John McCrae Fellowship.—A fellowship of approximately $600, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for the purpose of scientific research in Experimental Surgery. Established as a permanent fellowship in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company.

The John W. Flinn Research Fellowship.—In 1921 Dr. John W. Flinn, of Prescott, Arizona, gave the sum of $5,000, to be paid in five equal annual instalments of $1,000, this sum to be used for the assistance of medical research in tuberculosis.

The Hiram N. Vineberg Fellowship in Gynæcology, of the value of $250.00 per annum, donated in 1924 by Dr. Hiram N. Vineberg, of New York, a graduate of McGill University, 1878.

The J. W. McConnell Scholarship.—The sum of $1,000.00 was donated to the Department of Surgery for purposes of research for the year 1925-26. This was renewed each year since and will be again available for the session 1928-9.

The Clara Law Fellowship, founded in 1927 by Mrs. J. R. Fraser for the furtherance of research in the laboratory of the Department of Obstetrics and Gynæcology, is of the value of $1,200 per annum.

The P. P. Cowans Scholarships of $1,000.00 was presented to the Department of Surgery and Physiology for purposes of investigation in these subjects during the year 1925-26. It was renewed each year since and will be again available in 1928-9.

The Walter J. Hoare Memorial Scholarship.—A sum of money has been donated by Dr. Charles W. Hoare, a graduate of McGill University, as a Scholarship in Medicine, in memory of his son, Walter J. Hoare, who was killed in the Great War. This Scholarship is open to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine.

Four scholarships for Canadian students were donated in 1927, one each by Mrs. R. MacDougall Paterson, Mrs. Charles Meredith, Mrs. C. F. Martin and Louis Colwell, Esq. These scholarships are valued at $400.00 each per annum, and extend over the five years of the course. The conditions pertaining to these scholarships may be had on application to the Dean or Secretary of the Faculty of Medicine.

Two additional scholarships similar to the above have been donated by C. W. Lindsay, Esq., and A. B. Purvis, Esq., and will be available for the session 1928-29.

MEDALS AND PRIZES IN DENTISTRY

The F. A. Stevenson Gold Medal.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing will be determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the whole course.

The Lieut.-Governor's Silver Medal.—Awarded to the student in the Final Year who stands highest in the practical work done during the year and at the final examinations.

The Lieut.-Governor's Bronze Medal.—Awarded to the student obtaining the highest marks, in the Final Year examinations, in Dental Pathology and Dental Therapeutics.

Final Year Prize.—A prize in books will be awarded to the Final Year student who stands second in the class. The standing will be determined in a manner similar to that followed in the awarding of the gold medal.

Third Year Prize.—Two prizes (first and second), in books, will be awarded in the Third Year. The method of determining the winners of these prizes will be similar to that adopted in awarding the prizes in the Final Year.

Second and First Year Prizes.—A prize in books is awarded to the student obtaining the highest standing at the sessional examinations.

MEDALS AND PRIZES IN THE SCHOOL OF PHYSICAL EDUCATION

See page 507.

MEDAL IN PHARMACY

See page 494.

SCHOLARSHIPS AND MEDALS IN THE SCHOOL FOR GRADUATE NURSES

See page 534.

SCHOLARSHIPS IN THE SCHOOL FOR SOCIAL WORKERS

See page 520.

SCHOLARSHIPS, GENERAL

THE RHODES SCHOLARSHIP.—This scholarship, open to students in the Province of Quebec, is of the annual value of £400 sterling and is tenable at the University of Oxford for three years. The scholar must be a British subject, must be over 19 and under 25 years of age and must have reached at least the end of his Sophomore, or Second Year, in the University.

Full particulars can be obtained from Gilbert S. Stairs, B.A., K.C., of McGibbon, Mitchell, Casgrain, McDougall & Stairs, 107 St. James St., Montreal, who is Secretary of the Selection Committee for the Province of Quebec.

SCIENCE SCHOLARSHIPS GRANTED BY HER MAJESTY'S COMMISSIONERS FOR THE EXHIBITION OF 1851.—These scholarships, of the value of at least £250 sterling a year, are tenable for two, or, in rare instances, three years. They are limited, according to the Report of the Commission, "to those branches of science, such as physics, mechanics and chemistry, the extension of which is especially important to our national industries." Their object is not to facilitate ordinary collegiate studies, but to enable students to continue the prosecution of science with the view of aiding in its advance or in its application to the industries of the country.

They are open to students of not less than three years' standing who have shown evidence of capacity for original research and are tenable at any institution approved by the Commission.

Three of these Scholarships are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of certain Universities, among which McGill is included.

SCHOLARSHIPS AND FELLOWSHIPS FOR GRADUATES

1. THE MCGILL DELTA UPSILON MEMORIAL SCHOLARSHIP.—This scholarship has been founded by the McGill Chapter of the Delta Upsilon Fraternity to perpetuate the memory of the members of that Chapter who gave their lives in the Great War.

It is open to all graduates of the University, and the following considerations will govern the award:—(a) the general scholarship of the candidate; (b) his need of financial assistance for further study; (c) the general usefulness to the community of the special branch of study he proposes to follow; (d) the likelihood that the candidate will reflect credit on the University.

The present value of the scholarship is about $750.

This scholarship will be paid in three instalments, in October, January and April, about the 20th of each of these months, but the second and third instalments will be paid only on receipt of a satisfactory report from the professor or professsors under whom the scholar is carrying on his work.

2. The Allen Oliver Fellowship.—This scholarship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, M.C., B.A.,* Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." The scholarship will be awarded annually to the student who stands highest in first class honours in the Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science in McGill University or elsewhere. The present value of the scholarship is about $650.

3. The LeRoy Memorial Fellowship in Geology.—This fellowship was established by some friends of Captain O. E. LeRoy (Arts, 1895), who was killed in the Battle of Passchendaele, in October, 1917. It will be annually awarded to a worthy student who desires to proceed to post-graduate studies in Geology at McGill University. The recipient of this award may be called upon to assist in the teaching work of the Department. This Fellowship is awarded by the head of the Department of Geology and Mineralogy in consultation with the Principal. It is of the annual value of $700.

4. The Dr. T. Sterry Hunt Research Scholarship in Chemistry.—This scholarship of the value of $1,000 is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc. or Ph.D. and have shown high capacity for research.

5. Post-Graduate Scholarships Granted by the Imperial Order of the Daughters of the Empire.—Nine are offered annually—one for each province. They are of the value of $1,400, and have been founded

* Lieut. Oliver was an honour graduate in 1915 in the Department of Economics and Political Science.

"to enable students to carry on studies at any university in the United Kingdom, in British and Imperial history, the economics and government of the Empire and Dominion, or any subject vital to the interests of the Empire."

Full details may be obtained from the Secretary of the National Chapter of Canada, 238 Bloor Street East, Toronto 5, Ont.

6. University Women's Federation Scholarship.—The Scholarship of the Canadian Federation of University Women, of the value of $1,250, available for study or research work, is open to any woman holding a degree from a Canadian University. In general, preference will be given to those candidates who have completed at least one or two years of graduate study and have a definite research in preparation. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

The choice of the University at which the successful candidate shall pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

Full information can be obtained from the Convener of the Scholarship Committee, Mrs. Douglas Thom, 2220 College Street, Regina, Sask.

Applications must be received not later than February 1st.

7. Montreal Manufacturers' Graduate Fellowship.—This fellowship, of the annual value of $800.00, has been established by the Montreal Branch of the Canadian Manufacturers' Association. It shall be awarded annually to a member of the graduating class in honours in Economics and Political Science to be selected by the head of the department. The student receiving the Fellowship shall pursue his graduate studies for the M.A. degree in the department and shall take as the special subject of his investigation one dealing with Canadian trade or industry approved by the head of the department and by the Chairman of the Montreal Branch of the Canadian Manufacturers' Association.

8. The Moyse Travelling Scholarships.—Two scholarships of the value of $1,500 each, to be known as The Moyse Travelling Scholarships, tenable for one year, have been founded by Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University."

These scholarships are awarded by the Faculty of Arts. One will be awarded for distinction in literary subjects, and the other for distinction in scientific subjects. If a deserving applicant in one of these

divisions is not forthcoming, both scholarships may be awarded to applicants who belong to the other. The holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university, but not to the exclusion of other universities.

Applications are to be made to the Dean of the Faculty of Arts, before the first of April each year.

9. The Province of Quebec Scholarships.—Fifteen scholarships are granted annually by the Government of the Province of Quebec to men graduates of a Provincial University desirous of completing their studies in Europe.

Candidates are required to make application to the Principal. Applications must be approved by the Dean of the Faculty to which the candidate belongs or from which he has graduated, and may be supported by other recommendations. Candidates must be Canadians, bona fide residents of the Province of Quebec and not over twenty-five years of age. The Government of the Province does not necessarily accept all the candidates recommended by the University.

Two or three of these are usually awarded to graduates of McGill University.

10. Research Scholarship in Canadian History.—The Scholarship of $2,000, offered by the Women's Canadian Club of Montreal for research study in Canadian History, is open to graduates of McGill. Applicants must be prepared to spend two years of study under the terms of the Scholarship and the stipend will be paid in half-yearly instalments of $500.00 each. Applications for 1928 should be forwarded to the President of the Women's Canadian Club, 348 Sherbrooke St. W., Montreal.

11. Three research and teaching fellowships of the value of $750.00 each have been established in the Mining Department—one endowed in memory of the late Sir William Dawson, one endowed by the late Dr. James Douglas, and a third, of a slightly less value, supported by graduates in Mining in the name of the late Dr. B. J. Harrington. All three fellowships are awarded annually if suitable candidates offer.

12. A research and teaching fellowship of the value of $80.00 per month during the University session is offered to students graduating in the Metallurgical Department. The student holding this fellowship is expected to devote two-thirds of his time in research and study for the M.Sc. degree, and one-third in teaching and other work for the Department.

13. A research Scholarship of $1,200, open to members of the graduating class in Chemical Engineering, offered by the New Jersey Zinc Company for research in rubber, under Dr. G. S. Whitby.

14. THE HUGH MCLENNAN MEMORIAL SCHOLARSHIP.—A scholarship established by Hon. John Stewart, Dr. Francis and Miss Isabelle McLennan in memory of the late Hugh McLennan, son of the Hon. John Stewart McLennan, who was killed at the Battle of Ypres in 1915. This scholarship is of the value of about $1,000 and will be awarded annually to the student who during his course in Architecture has shown the greatest capacity in the solution of problems and who gives promise of creative ability.

15. THE GRADUATE (WORKING) FELLOWSHIP; $800 a year. The holder of this fellowship is required to devote one-third of his time to the work of the University in the correction of junior exercises, etc.

16. MACDONALD COLLEGE AGRICULTURAL ALUMNI ASSOCIATION GRADUATE SCHOLARSHIP.—In memory of graduates and undergraduates of the Faculty of Agriculture who died in service during the Great War, 1914-1918. It has a value of about $200 and is available to any graduate in Agriculture of Macdonald College (McGill University) for graduate work, in any branch pertaining to agriculture at any college or university of a recognized standing. Application for this scholarship should be addressed to:—Mr. Emile A. Lods, General Secretary, Macdonald College, P.Q.

17. MACDONALD GRADUATE SCHOLARSHIPS.—The W. C. Macdonald Reg'd. have offered four scholarships, of the value of $500 each, for the academic year and tenable at Macdonald College, one to the University of British Columbia and three to the Province of Quebec, viz.: one to a graduate of the University of Montreal (Agricultural Institute at Oka); one to a graduate of Laval University (Agricultural College at Ste. Anne de la Pocatière); and one to a graduate of McGill University (Macdonald College). Applications should be made through the Head of the Faculty of Agriculture or Agricultural College concerned, to the Principal, Macdonald College, P.Q.

18. QUEBEC MINISTER OF AGRICULTURE GRADUATE SCHOLARSHIPS.—The Minister of Agriculture of the Province of Quebec has granted three scholarships for the session 1928-29, one each to graduates of the Oka Agricultural Institute (University of Montreal), the School of Agriculture, Ste. Anne de la Pocatière (Laval University), and the School of Agriculture, Macdonald College (McGill University); of the value of $500 each, for graduate work at Macdonald College; on the understanding that the holders of such scholarships are residents of the Province of Quebec and that such scholarships shall be awarded by the Minister on the recommendation of the three Schools of Agriculture concerned.

FEES

MATRICULATION FEES

I. JUNIOR MATRICULATION EXAMINATION

A dollar per paper, with a maximum charge of ten dollars and a minimum of two.

II. SENIOR MATRICULATION EXAMINATION

Two dollars per paper with a maximum of fifteen dollars and a minimum of three.

Matriculation examination fees must be sent to the University Registrar at the time of application for the examination. No application will be accepted unless accompanied by the regular fee.

Certificates will be issued to successful candidates without additional fee.

(For an examination at a local centre where not more than four candidates are writing, the fee will be determined by the Registrar.)

Fee for valuation and registration of certificates which are accepted for admission to any year in any Faculty..... $5.00

GENERAL REGULATIONS RE PAYMENT OF SESSIONAL FEES

1. Fees are due and payable to the Bursar as follows:—
Students in Arts (men and women), Commerce excepted.....October 3rd, 4th and 5th
" " Commerce.....October 6th

Fees will also be received before October 1st.

They may be paid by cheque, which should be mailed so as to reach the Bursar not later than October 14th.

Students who pay by instalments will be required to pay the second instalment on or before February 1st.

2. After October 15th, or February 1st (in the case of those who pay by instalments) an additional fee of $2.00 will be exacted of all students in default.

3. Students registering after October 15th shall pay their fees at the time of registration, failing which they become subject to the provisions of regulation 2.

4. Immediately after October 20th, or February 5th (in the case of students who pay by instalments), the Bursar will send to the Deans of the several Faculties a list of the registered students who have not paid their fees, on receipt of which the Dean shall cause their names to be struck from the registers of attendance, and such students cannot be readmitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

FEES IN ARTS

Sessional fee for the undergraduate course in Arts..... This includes fee for library, gymnasium and graduation.	*$125.00
By instalments:—	
First instalment, if paid before October 15th.....	64.00
Second instalment, if paid before February 1st.....	64.00
Sessional fee for the undergraduate course in the School of Commerce	150.00
By instalments:—	
First instalment, if paid before October 15th.....	77.00
Second instalment, if paid before February 1st.....	77.00

At the request of the students themselves and by the authority of Corporation, an additional fee of $17.00 will be collected from all men undergraduates, for the support of the various undergraduate organizations and for the skating rinks and tennis courts during the session and for admission to the home games under the control of the Athletic Board. Women students pay an additional fee of $6.00 for the same athletic privileges as the men, $1.50 for the McGill Daily and $2.50 for the McGill Women Students' Society, which includes all Royal Victoria College Societies. Membership in this Society is also open to women students taking partial courses on payment of the regular fee.

Fees for Laboratory Courses.

$5.00 per hour per week of instruction for the academic year, but the maximum fee shall not exceed $30.00 for any one course nor $60.00 for any one student. This fee will cover laboratory materials, reagents, the use of instruments, and ordinary wear and tear of instruments and apparatus, but it will not cover losses through waste, neglect or breakage. The charges under this head will be deducted from the students' caution money at the end of the session.

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* For students enrolled before the session 1926-27, this fee will be $100.00.

Fees for Limited Undergraduates in the Faculty of Arts.

In the First Year the fees shall be $22.00 per course; in the Second Year $26.00 per course; in the Third and Fourth Years $13.00 per course.

Fees for Limited Undergraduates in the School of Commerce.

In the First Year the fees shall be $30.00 per course; in the Second, Third and Fourth Years, $35.00 per course.

Any Arts students transferring to Second Year Commerce must pay a fee of $175.00 for that year.

Fees for Partial Students.

1. In Arts.

The fees for partial students are: $4.00 for library, $3.00 for athletics and athletic grounds, and a fee at the rate of $9.00 for an hour a week of instruction during the academic year for courses in the First and Second Years and $11.00 per hour for Third and Fourth Year courses, but the maximum fee shall in no case exceed the full undergraduate fee.

2. In Commerce.

$4.00 for library, $3.00 for athletics and athletic grounds and a fee at the rate of $11.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Partial students may, if they so desire, secure the privileges of the skating rinks and tennis courts during the session and admission to the home games under the control of the Athletic Board by the payment of an additional amount of $3.00 for women and $7.00 for men.

Graduates in Arts of this University are allowed, on payment of one-half of the usual fees, to attend all lectures in the undergraduate course, except those for which a special fee is exigible. Graduates of other universities attending full courses in affiliated theological colleges are given the like privilege.

Fees for Supplemental Examinations.

Each supplemental examination paper taken at the regular date fixed by the Faculty in September or May	$ 5.00
Each subsequent supplemental examination paper in the same subject	10.00
Each special supplemental examination paper at any other period	10.00

All fees for supplemental examinations must be paid to the Bursar and the receipts shown to the Dean before the examination.

General certificate of standing (after the first two)..... $ 1.00
Certificate of standing, accompanied by a statement of classification in the several subjects of examination (after the first two). 2.00

All applications for certificates must be addressed to the Registrar of the University, accompanied by the required fee.

No certificates are given for attendance on lectures unless the corresponding examinations have been passed.

For the degree of B.A. or B.Sc. (Arts) conferred *in absentia* (except when the candidate has been specially exempted by the Faculty) $20.00

Caution Money.—Every student is required to deposit with the Bursar the sum of $10.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

FEES IN APPLIED SCIENCE

Sessional fee for the undergraduate course..... $205.00

By instalments:—

First instalment, if paid before October 12th..... $105.00
Second instalment, if paid on or before February 1st..... 105.00

Fees are payable on October 8th and 9th, but they will also be received before October 1st. They may be paid by cheque, which, if mailed, should reach the Bursar not later than October 12th.

After October 12th or February 1st (as the case may be) an additional fee of $2.00 will be exacted of all students in default.

Students taking the summer schools in May and September are required to pay the sum of $35.00, which includes the Caution Money Deposit. This will be placed to their credit on the fee for the following session.

At the request of the students themselves, and by authority of Corporation, an additional fee of $17.00 will be exacted from all undergraduates for the support of student activities.

Graduates of this Faculty taking an additional undergraduate course will pay one-half of the undergraduate fee for that course.

Students taking the six-year double course in Arts and Applied Science or the seven-year course in Arts and Architecture shall pay full fees in Arts for the first three years of their course and full fees in Applied Science for the remaining three or four years, as the case may be, and an extra fee for the work required to be done in Applied Science whilst they are taking their course in Arts, to be computed at the rate charged partial students as stated below.

The fees for partial students are:—$4.00 for library, $3.00 for athletics and athletic grounds, $1.00 for the Undergraduates' Society, and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Partial students may, if they so desire, secure the privileges of the skating rinks and tennis courts during the Session and admission to the home games under the control of the Athletic Board by the payment of an additional amount of $7.00.

Fee for the degree of B.Sc., conferred in absentia (except when the candidate has been specially exempted by the Faculty) ... $20.00

For a regular supplemental examination, the fee is $5.00; for each subsequent supplemental examination in the same subject $10.00; for a special supplemental examination $10.00.

Caution Money.—Every student is required to deposit with the Bursar the sum of $10.00, as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

FEES IN MEDICINE

All students must register with the University Registrar before paying their fees.

1. Fees are due and payable to the Bursar on September 26th and 27th. They may be paid by cheque, which should be mailed so as to reach the Bursar by the date named.

Fees will also be accepted before September 19th.

Students who pay by instalments will be required to pay the second instalment on or before February 1st.

After September 27th or February 1st (in the case of those who pay by instalments) an additional fee of $2.00 will be exacted of all students in default.

2. Immediately after October 10th, or February 5th (in case of students who pay by instalments), the Bursar shall send to the Dean of the Faculty a list of the registered students who have not paid their fees, on receipt of which he shall cause their names to be struck from the register of attendance, and such students cannot be re-admitted to any class except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

3. Students registering after September 27th shall pay their fees at the time of registration, failing which they become liable for the additional fee of $2.00 exacted of students in default.

4. The total Faculty fees for the medical course of five full sessions, including clinics, laboratory work, dissecting materials and reagents, will be *one thousand two hundred and fifty dollars,* payable in five annual instalments of $250.00 each. This, however, does not apply in the case of students who entered before 1926.

At the request of the students themselves and by the authority of Corporation, an additional fee of $17.00 will be exacted from all men undergraduates, for the support of different undergraduate organizations and for athletics, including admission to the tennis courts and rinks during the session and to all home games under the control of the Athletic Board.

Women students are required to pay, in addition to the tuition fees, $6.00 for athletics (including admission to the tennis courts and rinks during the session and to all home games under the control of the Athletic Board), $2.50 for the Women Students' Society and $1.50 for the McGill Daily.

The sum of $10.00 is collected from all students at the time of registration as "caution money," from which deductions for breakage reported from the laboratories or lecture rooms are made and a refund is granted at the close of the session.

5. Partial students will be admitted to one or more courses on payment of special fees. They are required to pay a $3.00 fee for athletics. Men students of this class may, however, pay $10.00 and Women students $6.00 instead, in return for which they will be admitted to the tennis courts and rinks during the session and to all home games under the control of the Athletic Board.

6. Students repeating the course of study of any academic session are not required to pay full fees. A fee of one hundred dollars will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc.

7. Students taking out extra dissecting material will be charged at the rate of $10.00 for a half session and $20.00 for a whole session.

8. An *ad eundem* fee of $10.00 is charged students entering from another university in any Year above the First.

9. When the degree of Doctor of Medicine and Master of Surgery is conferred in absentia, a fee of twenty dollars will be charged, unless the candidate has been specially exempted by the Faculty.

10. The fee for the graduate course in Public Health, including laboratory fee, the fee for outdoor work and the diploma fee, is $100.00.

SUMMARY OF FEES

Sessional fee		$250.00*
By instalments:		
First instalment, if paid before September 27th	$127.00†	
Second instalment, if paid before February 5th	127.00†	
Microscope, first instalment (on deferred payment plan)	32.00	32.00
Caution money (deposit)	10.00	10.00
Fee for Union, athletics, etc.	17.00	17.00
	$313.00	$309.00

MICROSCOPES

Each student is required to provide himself, on beginning his studies, with a first-class microscope for laboratory and private study throughout his course. The Faculty will supply the instruments necessary for demonstrations, etc. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine.

Should the student not be provided with such a microscope, he may purchase a new guaranteed instrument through the Bursar's office of the University for the sum of $105.00 or on the deferred payment plan, by which payment is spread over five years, as follows:—First year, $32.00; second year, $25.00; third year, $22.00; fourth year, $20.00; fifth year, $16.00.

FEES IN LAW

The sessional fee of $155.00 is payable to the Bursar on October 1st, 2nd or 3rd and not later than October 12th. Students who prefer to do so may pay the fee in two instalments of $79.00 each, the second of which is due on the 1st of February.

Students who make default in payment are liable to be removed from the Faculty in accordance with the regulations of the University.

Men students pay an additional fee of $17.00 for the support of various undergraduate activities and for the use of the skating rinks and

* For students who entered the Faculty prior to the session 1926-27 this fee will be $205.00.

† For students who entered prior to 1926-27, $105.00.

tennis courts during the Session, and for admission to the home games under the control of the Athletic Board. This fee has been sanctioned at the request of the student body.

Women students pay an additional fee of $6.00 for the use of the skating rinks and tennis courts during the Session, and for admission to the home games under the control of the Athletic Board; $1.50 for the McGill Daily and $2.50 for the McGill Women Students' Society, which includes all Royal Victoria College Societies. Membership in this Society is also open to women students taking partial courses on payment of the regular fee.

When the degree of B.C.L. is conferred *in absentia* a fee of $20.00 will be exacted, unless the student has been specially exempted by the Faculty.

Partial students will pay a fee calculated at the rate of $9.00 for an hour per week of instruction for one half-session, and $3.00 for athletics and the use of athletic grounds.

Every student is required to deposit with the Bursar the sum of $5.00 as caution money to cover damage done to University property. The balance, less any deductions, will be returned at the close of the session.

FEES IN DENTISTRY

Sessional fee		$210.00
By instalments:—		
First instalment, if paid by 12th October	$107.00	
Second instalment, if paid by 1st February	107.00	
Athletics and Societies		17.00
Caution Money (deposit)		10.00
		$237.00

The fee of $20.00 is exacted when the degree of D.D.S. is conferred in absentia.

The cost of instruments and material for First Year students is at least $150.00 and for Second Year students $350.00. These instruments are practically all that will be needed in an ordinary dental practice.

The sum of $10.00 is collected from all students at the time of registration as "Caution Money," from which deductions for breakages reported from the laboratories or lecture rooms are made. The balance will be refunded at the close of the session. ... ...

Partial students will be admitted to one or more courses on payment of special fees.

Students of this University repeating the course of study of any academic session are not required to pay full fees. A fee of one-half the regular fee will be charged, which will include dissecting material, chemical reagents, laboratory fees, etc. The same fee is charged students entering from other colleges who have already paid full fees elsewhere for the courses taken. Students repeating the Third or Fourth Year will be required to pay in addition a Hospital Fee of $25.00.

An *"ad eundem"* fee of $10.00 will be charged students entering from another university in the Second, Third or Fourth Year of the course.

Fees shall be paid to the Bursar on September 28th, or at any time before September 19th. They may be paid by cheque, which should be mailed so as to reach the Bursar by the date mentioned. After October 12th, or February 1st (in the case of those who pay by instalments), an additional fee of $2.00 will be exacted of all students in default.

Students registering after October 12th shall pay their fees at the time of registration, failing which, they become subject to the provisions of the above regulation.

All undergraduate women students must pay in addition to their tuition fees, $6.00 for athletics and athletic grounds, $1.50 for the McGill Daily and $2.50 for the McGill Women Students' Society.

Immediately after October 20th, the Bursar shall send to each of the Deans of the several faculties a list of the registered students who have not paid their fees, on receipt of which the Deans shall cause their names to be struck from the register of attendance, and such students cannot be readmitted to their classes except on presentation of a special ticket, signed by the Bursar, certifying to the payment of fees.

FEES IN MUSIC

Conservatorium Fees

The fees will be as follows:—

Regular Students. $200 a year payable at the beginning of the session (not later than October 1st), or in two instalments of $102 each, payable before October 1st and February 1st, respectively. This sum will also cover the fees for the Diploma or Degree Exmination at the end of the year, as well as fees to Students' Societies.

Partial Students. $40 to $50 (according to instructor selected) per term of eleven weeks. Students paying in full for three terms of eleven weeks each will be allowed to take the examination for a Certificate at the end of the year without any further fee.

Class Students. Fees vary between $5 and $25 per term, according to class. Precise information can be obtained on this point from the Secretary.

The fees for examinations for Certificates, when not included in the term fees as above mentioned, will be the same as the fees for the Local Examinations.

In all cases fees must be paid strictly in advance at the office of the Conservatorium.

No individual or class lessons will be given to any student who is unable to produce a receipt, showing that the necessary fees have been paid.

At the request of the students themselves and by the authority of Corporation, a fee of $17.00 will be collected from all men undergraduates, for the support of certain Student Societies, the use of the skating rinks and tennis courts during the session and for admission to the home games under the control of the Athletic Board. Women students pay a fee of $6.00 for the athletic privileges mentioned above, $1.50 for the McGill Daily and $2.50 for the McGill Women Students' Society, which includes all Royal Victoria College Societies. Membership in this Society is also open to women students taking partial courses on payment of the regular fee. Women students in Arts and Music are also required to pay $1.00 for the Royal Victoria College Undergraduates' Society. These items, however, are covered by the regular fees.

Fees for Diploma and Degree Examinations

Diploma of Licentiate (L. Mus.).—Fees for examinations, $45, of which $15 is payable at each examination. Diploma fee, $5.

Degree of Bachelor of Music (Mus. Bac.).—Matriculation fee, $10 (see University Calendar). Fees for examinations payable as follows:—First examination in Music, $20. Second examination in Music, $20. Final examination in Music, $20, Graduating fee, $20.

Although under special conditions exemptions from certain examinations for the Diploma of Licentiate and Degree of Bachelor of Music may be allowed, there will be no exemption from the fees given above, except in the case of candidates holding McGill Local Centre Certificates.

Degree of Doctor of Music (Mus. Doc.).—Fee $100, one-half of which ($50) is to be paid when submitting exercise and the balance ($50) before the final examination.

N.B.—Candidates examined in theoretical subjects connected with the above Degrees and Diplomas at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

FEES IN THE FACULTY OF GRADUATE STUDIES

For the course leading to the degree of M.A., M.Sc. or M.S.A.	$ 60.00
For each year of the course leading to the degree of Ph.D....	60.00
Graduation fee for M.A., M.Sc., or M.S.A.	20.00
Graduation fee for M.A., M.Sc., or M.S.A. (in absentia)	40.00
Graduation fee for Ph.D.	30.00
Graduation fee for degree of D.Litt.	80.00
Graduation fee for the degree of D.C.L.	80.00
Graduation fee for the degree of D.Sc.	80.00
Graduation fee for the degree of Mus. Doc.	100.00

Laboratory fee, $5.00 per hour, with a maximum fee of $25.00.

Registration:—Students taking more than one year for the degree of M.Sc. or M.A. and those taking more than three years for the Ph.D. degree, are required to pay only $5 on registration for each additional year.

All fees for courses of instruction are payable on registration.

There is no fee for the degrees of LL.D. or M.A. when granted *honoris causa.*

The graduation fee (which covers the charges for examination) is payable when the candidate presents himself for examination and is not returnable if he is unsuccessful. **No thesis can be accepted unless it is accompanied by a receipt from the Bursar for this fee.** If, however, a candidate for the degree of M.A., M.Sc., or M.S.A. fails, he may present himself for the examination in a subsequent year without further payment of fees. A candidate for the degree of Ph.D., D.Sc., or D.Litt., in case of failure, may present himself once again, in a subsequent year, upon payment of an additional sum amounting to one-half of the usual fee for this degree.

Lecturers, tutors and demonstrators in the University who are proceeding to the degree of Master of Arts, Master of Science, Master of Science in Agriculture or Doctor of Philosophy, shall, so long as they remain members of the teaching staff, be exempt from the tuition fee, but will be required to pay laboratory and registraton fees and the fee for graduation in every case. In the event of their leaving the staff after one year of the course, they are required to pay a tuition fee of $20 in the M.A., M.Sc. or M.S.A. course and the prescribed fee in the Ph.D. course.

FEES IN PHARMACY, THE SCHOOLS OF PHYSICAL EDUCATION, SOCIAL WORKERS, GRADUATE NURSES AND LIBRARY ADMINISTRATION

See pages 494, 506, 521, 534 and 566.

STUDENTS' EXPENSES

1. BOARD AND RESIDENCE

No college residences have as yet been erected for men students, but dormitory accommodation for about 60 is provided in Strathcona Hall, the home of the Student Christian Association of McGill University. Full particulars concerning terms of residence, etc., may be obtained from the Secretary of the Association, 348 Sherbrooke Street West, Montreal, who will also make arrangements to have students who are strangers to the City met on arrival and helped to secure lodgings, if due notice is sent of the station and time at which they will arrive.

Information about boarding and lodging houses may be had on application to the Secretary at Strathcona Hall. A list of suitable houses is prepared about a fortnight before the opening of the session each year. Owing to frequency of change, this list is not mailed.

The Royal Victoria College provides, in addition to separate lecture rooms, residential accommodation for the women students of the Faculties of Arts and of Music. The expense of board and residence for the session in the Royal Victoria College is $500. Further particulars will be furnished by the Warden.

The Department of Physical Education maintains a Hostel for Students of the School of Physical Education. The expense of board and residence for the session is $520. Full particulars will be furnished by the Secretary, School of Physical Education.

Board and lodging can be obtained in several of the theological colleges affiliated to the University and also in the numerous Fraternity houses in the vicinity of the College campus. The price of board and room in private houses is from $60.00 and upwards per month; or, separately, board at $45.00 to $55.00 per month, rooms from $15.00 to $20.00 per month.

Board is furnished in the McGill Union at low rates. The dining room, which is a special feature of the Union, will accommodate over 120 students at a time. There is also a lunch counter where meals are served *à la carte*.

2. APPROXIMATE ESTIMATE OF COST OF COURSE

Faculty of Arts (Men).

(In all Years except the last the session extends from October 1st to May 15th. The course is one of four years.)

	Minimum	Moderate
Tuition Fees	$125	$125
Fee for Athletics, Union, etc.	17	17
Board and Lodging	450	550
Books, Apparatus and Laboratory Fees	33	38
	$625	$730

Faculty of Applied Science.

(In all Years except the last the session extends from October 1st to May 1st with, as a rule, two summer schools of from three to four weeks' duration—Course, four years, with a preparatory year in the Faculty of Arts or Senior Matriculation.)

	Minimum	Moderate
Tuition Fees	$205	$205
Fee for Athletics, Union, etc.	17	17
Board and Lodging	435	525
Books and Instruments	43	53
	$700	$800

The sum of from $60.00 to $75.00 will also have to be reckoned on as extra expenditure in connection with summer schools for three years.

Faculty of Medicine.

(In all Years except the last the session extends from about September 20th to May 20th. Course, five years, preceded by two pre-medical years in the Faculty of Arts.)

	Minimum	Moderate
Tuition Fees	$250	$250
Fee for Athletics, Union, etc.	17	17
Board and Lodging	480	560
Books, Instruments, etc.	153	173
	$900	$1,000

Undergraduates in Arts residing in affiliated theological colleges, with a view to a course in theology, are able to obtain board and lodging for less than the minimum shown above, and in all Faculties the expense under the head of "Books and Instruments" can be reduced by purchasing these at second-hand.

It will be noticed that in the above estimate no account is taken of personal expenses, such as cost of clothes, laundry, etc., nor yet of the caution money deposit which is made by each student at the commencement of the session. This amounts to $5.00 in the Faculty of Law and $10.00 in the Faculties of Arts, Medicine and Applied Science. It might be well also to reckon on at least $20.00 to $25.00 per annum for subscriptions of various kinds.

MORALS AND DISCIPLINE

1. University discipline shall be exercised by the several Faculties, and by the Committee on Morals and Discipline, subject in the cases hereinafter mentioned to revision or confirmation by Corporation.

2. Subject to the provisions of the following sections, each Faculty shall be entitled to exercise University discipline over its own students.

3. All cases of discipline involving the interests of more than one Faculty, or of the University in general, shall be dealt with by a standing Committee of Corporation, to be known as the Committee on Morals and Discipline. The Committee shall have power to summon as assessors the President and Vice-President of the Students' Council.

4. All such cases of discipline as are referred to in sub-section 3 shall be reported to the Principal, or, in his absence, to the Vice-Principal, or, in the absence of both, to the senior Dean present in the city. If the Principal, or, as the case may be, the Vice-Principal or the Dean, deems action necessary, the matter shall be reported to the Committee on Morals and Discipline. Corporation shall also have the power to report such matters to the said Committee.

5. When sentence of expulsion, or of suspension for more than three months, has been pronounced or recommended by a faculty, or by the Committee on Morals and Discipline, the Corporation may entertain an appeal, which shall be final.

6. "University discipline" shall mean any appropriate method of exercising authority over students, and shall, but without prejudice to the foregoing generality, include the power of expulsion, suspension, disqualifying from competing for scholarships, exhibitions, medals, prizes or honours, imposing fines, not exceeding $25.00 on any student, levying assessments for damage done, reporting to parents or guardians and admonition.

7. Any students found guilty of immoral, dishonest, disorderly or improper conduct, or of wrongfully causing damage to person or property, shall be liable to University discipline.

8. If on an occasion of general disorder on the part of a year, class, or group of students, damage be done to University property, or acts committed meriting discipline, and the individuals who have done such damage or committed such acts have not been discovered, an assessment to cover the damage may be laid, or a fine imposed, or both, on all the members of such year, class or group.

ACADEMIC DRESS

Professors, lecturers and students are required to wear academic dress at lectures, except in those cases in which a dispensation shall have geen granted by the Faculty.

Undergraduates shall wear a plain black stuff gown, not longer than half way between the knee and the ankle, with round sleeve cut above elbow.

Bachelor of Arts.—Black stuff gown, falling down below knee with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

Bachelor of Science.—The same gown as Bachelor of Arts; hood, black silk, lined with yellow silk and edged with white fur.

Bachelor of Science in Agriculture.—The same gown as Bachelors of Arts; hood, black silk, lined with dark green silk and edged with white fur.

Bachelor of Civil Law.—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur

Bachelor of Architecture.—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

Bachelor of Music.—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk and edged with white fur.

Bachelor of Commerce.—The same gown as Bachelors of Arts; hood, black silk, lined with purple silk and edged with white fur.

Master of Arts.—Black gown of stuff or silk, falling below knee, with long sleeves with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

Master of Science.—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

Doctor of Medicine.—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

Doctor of Dental Surgery.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pink silk.

Doctor of Laws.—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

Doctor of Literature.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

Doctor of Science.—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

Doctor of Civil Law.—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctor of Music.—The same gown as Masters of Arts; hood, scarlet cloth, lined with mauve silk.

Doctor of Philosophy.—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall be entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.), faced with silk of the same colour as the lining of their respective hoods.

All hoods shall be in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates shall wear the ordinary black trencher with black tassel, but Doctors of Law, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music shall wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods shall be kept for inspection in the office of the Registrar.

For the information of graduates in Great Britain, it may be stated that the gowns and hoods for the various degrees specified above can be purchased from Messrs. Ede, Son & Ravencroft, 93 and 94 Chancery Lane, London, W.C. 2.

FACULTY OF ARTS

The work done by McGill College, usually called the Faculty of Arts, covers all the work of the University in Arts, Pure Science and Commerce. Students should not confuse the work in Pure Science leading to the degree of B.Sc. with the work of the Faculty of Applied Science or Engineering.

Students may enter the undergraduate course by passing either the junior or the senior matriculation examination. In the former case, in order to obtain the degree of B.A. or B.Sc., they are required to attend regularly the prescribed courses of lectures for four years; in the latter, for three. No course or courses can be counted towards a degree or diploma in the Faculty of Arts except such as have been taken and passed after matriculation requirements have been satisfied and according to the regulations governing the various Years of the undergraduate course. Undergraduates are arranged in Years, from First to Fourth, according to their academic standing. The respective conditions of passing into the last three Years of the course are stated on page 162. The pass mark in all subjects of examination throughout the course is 50% and the marks for second and first class standing are 65% and 80% respectively.

An undergraduate may proceed to the degree of B.A. by taking either the General course or one of the Honour courses.

I. GENERAL COURSE FOR THE DEGREE OF B.A.

In each of the First and Second Years five courses shall be taken, i.e., fifteen hours of class work per week; and in the Third and Fourth Years respectively, four courses (twelve hours). The third hour in each course each week may be devoted to group conferences.

FIRST YEAR

(*a*) *Compulsory.*

Latin or **Greek.**
English 1 and **2.**
Mathematics.
But in the case of students who have already shown some aptitude in languages and are permitted to take three languages (exclusive of English), Mathematics shall not be compulsory.
Physical Education (two hours per week).

(*b*) *Elective.*

Two of the following:—

History.
Greek or **Latin** (if not already taken).
French.
German.
Science (Physics or **Chemistry*** or **Biology).**
Music and the Fine Arts.

For the subjects required to be taken by students who wish to qualify for the First Class High School diploma of the Province of Quebec, see page 182.

Details of the work in each subject are given on pages 168 to 216.

Advanced Courses.—A student qualified to take work of a more advanced character than that in the general course of the First Year in any subject, may take such advanced work in that subject as the department concerned may recommend. Students taking advanced courses may be excused from the corresponding general courses on the recommendation of the department.

Advisers.—A Board of First Year student advisers, consisting for the most part of members of the Staff teaching First Year subjects, shall be appointed each year. The Board shall have an executive committee, the Chairman of which shall be the Chairman of the Board. The Board, the Executive Committee and the Chairman shall be appointed by the Dean.

The number of advisers shall, if possible, be large enough to preclude the possibility of any one of them having more than ten advisees.

All First Year students should interview their advisers at least once a month.

Interim Tests and Probation.—There shall be two regular interim tests for all students of the First Year, the first to be held near the middle of the month of November and the second during the week preceding the mid-Winter vacation. There is no regular prescribed form of test, but it shall be as near as possible the equivalent of a standard examination of one hour's duration. All students who fall below the required standard in more than one-third of these tests shall be placed on probation for the rest of the academic year. During this period of

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* A course in high school Physics is a prerequisite for the Chemistry option.

probation students shall not be allowed to become members of a class or College athletic team or to hold office in any class or College society or to take part in any major student activities. All students who are below the required standard in one-half or more of these tests shall be dropped from the University for that year and shall not be allowed to re-enter the University except with the consent of the Faculty. Reports on First Year students who are delinquent in their tests shall be submitted promptly to the Dean's office by the examiners.

SECOND, THIRD AND FOURTH YEARS

Students shall choose two subjects for continued study through the Second, Third and Fourth Years.

These shall be designated *continuation subjects.*

In each of the continuation subjects, a full course or two half courses will be taken each year.

One of the continuation subjects must be selected from Division I of the list below, and one from Division II.

Division I	Division II	Division III	Division IV
English.	**Economics.**	**Botany.**	**Education.**
French.	**History.**	**Chemistry**	**Music.**
German.	**Mathematics.**	**Geology.**	
Greek.	**Philosophy.**	**Physics.**	
Hebrew.	**Political Science.**	**Zoology.**	
Latin.	**Psychology.**		
	Sociology.		

Physical Education is compulsory in the Second Year for two hours per week.

Additional courses, or the equivalent number of half courses, shall be chosen as follows:—

In the Second Year—Three additional full courses;

In the Third Year—Two additional full courses;

In the Fourth Year—Two additional full courses.

Of the additional courses two must be taken from Division III, the remainder may be selected at will from any of the Divisions. Students in excellent standing in their continuation subjects may apply to the Faculty to reduce the subjects required under Division III from two to one in number; provided always that they offer an equivalent amount of work in one of their principal subjects of study.

All students are expected and encouraged to consult at least one of the Departments in which they are doing continuation work on the selection of their additional subjects.

For subjects required to be taken by students who wish to qualify for the First Class High School Diploma of the Province of Quebec see page 182.

LIST OF COURSES AND PREREQUISITES

Second Year		Third Year		Fourth Year	
Course	Prerequisite	Course	Prerequisite	Course	Prerequisite
DIVISION I.					
English, 3, 4, 6, 7, 15	1 and 2				
French, 2	1	4, 5	2	6, 7	2
German, 5, 6.	1 or 2	8, 9, 10, 11	5 or 7	8, 9, 10, 11,	5 or 7
4	3	12, 13		12, 13	
Greek 2	1				
4	2	5	2 or 4	5	2 or 4
Hebrew 1		2, 3, 5, 8	1	3,5, 8	1
		3, 4, 6, 7	Greek 1	3, 4, 6, 7	Greek 1
		9, 10		9, 10	
Latin 2	1	3	2	3	2
DIVISION II.					
Economics 1 or 2		4, 5	1 or 2 or 3	8, 9, 10	1 or 2 or 3
		7, 8, 9, 10, 11, 31, 32, 31	1 or 2 or 3	11, 12, 13, 14, 15, 16, 17, 18, 31, 32, 33	1 or 2, or 3
History 2	1	3	2	4	3
Mathematics 2, 3, 4	1	2, 3, 4	1	2, 3, 4	1
		5, 6, 7	2 and 3	5, 6, 7	2 and 3
Philosophy 1		2, 4, 6	1	8	7
				2, 4, 5, 6, 7, 8	1
Political Science 3		4	1 or 2 or 3	5, 8, 9	1 or 2 or 3
		5, 8, 9, 10	1 or 2 or 3	12, 13, 14	1 or 2 or 3
Psychology 1		2, 3, 4, etc.	1	2, 3, 4, 5, 9, etc.	1
Sciology 1		2, 3, 4, 7, ...	1	2, 4, 5, 6, 7, 8,9, 11, 12, 14	1
DIVISION III.					
Botany 2	1	3	1, or Zool.	5, 7	2
3	1, or Zool. 1.	4	3	6	2
Chemistry 1		1		1	
Chemistry 2	1	2	1	2	1
Chemistry 3	2	3	2	3	2
Geology 1		1		1	
		2, 3 and 4	1	2, 3 and 4	1
Physics 2		2			
3	2 (and Math. 1)	3, 4	2 (and Math. 1)	3, 4	2 (and Math. 1)
		5, 6	3, 4 (and Math. 3)	5, 6	3, 4 (and Math. 3)
				7, 8*	5, 6a (and Math. 6.)
Zoology 1		1		1	
1M	1				
2-4	1	2-5, 7	1	2-5, 7	1
DIVISION IV.					
Education		1		2	1
Music 1		1			
		2	1	2	1

*Physics 3, 4 and Math. 6 may be accepted for 8a in the case of honour students in Chemistry.

Details of the work in each subject are given on pages 168 to 216.

Honour lectures are open to candidates for the General degree in the Third and Fourth Years, on the recommendation of the department concerned and with the approval of the Dean.

GENERAL RESTRICTIONS

The selection of continuation subjects or additional courses is under the following restrictions:—

1. A course intended primarily for First Year students may be counted as a full course in the Second Year.

2. Only those courses may be chosen for which the student has fulfilled the prerequisites laid down by each department.

3. Students are responsible for seeing that courses chosen do not conflict as regards hours of lectures or laboratory periods.

For regulations governing the double courses in Arts and Applied Science, in Arts and Medicine, and in Arts and Dentistry, see pages 164 to 166.

II. HONOUR COURSES FOR THE DEGREE OF B.A.

Honour courses may be elected in any two combined cognate departments or in any single department.

The arrangement of combined honour courses shall be left to the departments interested, and in cases of doubt or disagreement shall be referred to the Faculty for final decision.

In the honour courses in combined departments, when the departments are divided into two sections (as **Classics** into Greek and Latin, **Economics and Political Science** into Economics and Political Science), the graduate's certificate shall designate by name the sections in which Honours have been taken (*e.g.*, First Class Honours in Greek and Second Class Honours in Latin); but in honour courses in combined departments, where the departments are not divided into sections (as English, History, Sociology, etc.), the graduate's certificate shall indicate that the work done in each of the departments amounts to only half of a full honour course in that department—*e.g.*, First Class Honours in English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half).

Subject to the qualifications hereinafter referred to, honour courses may begin in the Second Year. Departments, however, should, whenever possible, have advanced classes or sections for the better students of the First Year

A Second Year General student who shows exceptional merit in any subject in his Second Year examinations may, if he so wishes and the head of the department is satisfied that his knowledge of the subject is sufficient to enable him to reach the standard of honours by two more years' study, be allowed to take up the honour course in that subject at the beginning of his Third Year.

The conditions for entering honour courses in the Second Year are as follows:—

(a) A student must not have failed in more than one subject at the final spring examinations in the First Year.

(b) The sanction of the Dean and of the head or heads of the departments in which honours are elected must be obtained.

(c) No student shall take honours in a subject in which he has failed to attain at least second class standing in his First Year.

Honour students who fail to attain second rank honour standing at the end of the Second Year shall revert to the General course in their next and following years, unless they obtain special leave to continue their honour work from the department or departments interested.

Honour courses in the Second Year shall consist of 15 hours and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work shall also involve wide reading and study in the subject, apart from the actual subjects of lectures, in accordance with a definitely prescribed programme.

Attention is drawn to the fact that lectures will not be given on all parts of the work.

In the Second Year a student registering for honours in one subject only will fulfil the requirement of fifteen hours by taking a minimum of two courses or six hours in his honour subject, and, in addition, such other courses (bringing the total to fifteen hours) as the department under which he is studying may direct. A student registering for combined honours in two subjects will fulfil the requirement of fifteen hours by taking two full courses in each honour subject, or twelve hours altogether, and, in addition, one other course, making a total of fifteen hours, as the two departments concerned may direct. A student who has failed in any such subject in the Third Year examinations shall not be allowed to continue his honour course except with the consent of the Faculty.

Departments shall be at full liberty to recommend their honour students to take one or more courses in cognate departments as the equivalent of courses in their own departments.

A student's whole record during his Second, Third and Fourth Years may be considered in awarding honours at graduation.

Students in honour courses who fail to attain second rank honours at graduation, or who only succeed in attaining second rank honours in one of two combined courses, shall revert to the list of General students.

Honours shall be awarded by the Faculty on the recommendation of the department or departments in which honours are elected.

Honour lectures are open to candidates for the General degree in the Third and Fourth Years, on the recommendation of the department concerned and with the approval of the Dean.

The examinations for honours will not be conducted exclusively by persons who have given the courses.

III. THE GENERAL COURSE FOR THE DEGREE OF B.Sc.

An undergraduate may proceed to the degree of B.Sc. in Arts by taking either of the General courses or an Honour course.

There are two General courses, designated respectively A and B

General Course A

This course has been arranged to give students a training in science as a preliminary to entering a technical business or profession, or for teaching.

First Year

English 1 and 2.
French 15.
Mathematics 1.
Physics 1 or 2.
Chemistry 1.

Details of the work in each subject are given on pages 168 to 216.

Second Year

In addition to English, four subjects must be taken, of which three must be selected from Group I below. The fourth subject is either German 3 or 4.

Third and Fourth Years

Two subjects selected from Group I must be continued in the Third and Fourth Years and two other subjects must be taken.

GROUP I

SUBJECTS	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Biology.	Zoology 1. Botany 1.	Zoology 2 *or* 4; *or* Botany 5 and 7.	Botany 5 and 7 *or* Zoology 2 *or* 4.
Chemistry.	2 *or* 3, and 4.	5 *or* 6 and 8.	
Geology.	1.	2 *or* 3, and 9.	2 and 3.
Mathematics.	3.	5 and 6.	6.
Physics.	2 (*or* 3A, if 2 has been taken).	2 and 4. 3A (*or* 3B and 4, if 3A has been taken).	3B and 4 (*or* 5A and 8A; *or* 8A and 9).

GROUP II

SUBJECTS	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Economics and Political Science.	1 *or* 2.	Any one of:—4 and 5, 6 and 7, 8 and 9.	Any one of:—4 and 5, 6 and 7, 8 and 9 (if not chosen in the Third Year), 12 and 13, 14 *or* 15.
Education.			1 and 2.
English.	4, 6, 7 *or* 8.	Any one of:—4 to 11. 15, 18.	Any one not taken in the Third Year, of 4 to 11, 15, 18.
French.	2.	4 *or* 5.	4 *or* 5.
German.	3 *or* 4.	7 *or* 8.	7 *or* 8.
History.	2.	3.	4.
Philosophy.	1.	Any one of:—2, 3, 4, 6.	2 *or* 3 *or* 4 *or* 6, whichever has not been taken in the Third Year.
Psychology.	1.	Any full course of 2-14.	Any full course of 2-14, not taken in the Third Year.
Sociology.	1.	2, *or* 3 and 4, *or* 5 and 6.	2, *or* 3 and 4, *or* 5 and 6, any course not taken in the Third Year.

Students selecting Physics, as one of the three subjects of the general B.Sc. course, must also select Mathematics.

A student in the Fourth Year may be allowed to drop one of the two compulsory subjects and to take an equivalent amount of work in the other compulsory subject.

Course B

Double Course B.Sc., M.D.

This course in the physical and biological sciences is especially devised for students who might wish to proceed to a degree in Medicine or to advanced work in physiology, biological chemistry, pharmacology or allied subjects.

Graduates in this course are qualified to enter the Second Year in the Faculty of Medicine.

First Year

English 1 and 2.
French 15.
Mathematics 1.
Physics 1.
Chemistry 1.

Second Year

German 3 *or* 4.
Physics 2.
Botany 1M.
Zoology 1M.
Chemistry 3.

Third Year

Chemistry 2 and 4.
General Physiology (First Year Medicine).
Physics 3A.
Botany 3.
Zoology 4A, 4B and 7.

Fourth Year

Chemistry 7.
Anatomy (First Year Medicine) *or* Special Advanced Biology.
Physiology (Second Year Medicine).
Histology and Embryology.
Bacteriology.

IV. HONOUR COURSE FOR THE DEGREE OF B.Sc.

Students proposing to take an honour course must select one principal subject from Group 1 (page 155), in which subject they must have obtained at least high second class standing in the First Year. If the subject chosen for honours is not offered in the First Year, an aggregate standing of high second class must be obtained in all subjects of the First Year.

Students who fail to retain their honour standing will be required either (1) to repeat the year in Honours or (2) to repeat the year in the General course or (3) to proceed to the following year, reverting to the General course at the discretion of the B.Sc. Advisory Committee.

The exact courses of study will be specified by the department concerned. All students will be required to take a course in German 4.

V. COURSE IN ENGINEERING PHYSICS

There is an increasing demand for men with an advanced knowledge of Mathematics and Physics, who are capable of conducting investigations of a research character. With a suitable training, openings in this field of work may be found in research laboratories of the Government and of industrial corporations, in consulting work, and in University appointments.

In view of these facts, a course in Engineering Physics leading to the degree of B.Sc. in Arts has been arranged. It is open to capable students in Arts or Applied Science:—

1. To students in Arts entering their Third or Fourth Year, provided they have satisfactorily passed in the following prerequisites:—

Mathematics 2, 3, 4.
Physics 3, 4.
Chemistry 1.

2. To students in Applied Science who have completed the Second Year and have received first or second class rank in Mathematics and Physics, subject to the approval of the heads of the departments of Electrical Engineering and Physics.

Third Year

Mathematics 5, 6.
Physics 5A, 5B, 6B (*or* 8B).
Electrical Engineering 113, 114.

During their summer vacation at the end of the Second Year, students are advised to spend three months at an approved shop or radio station.

Fourth Year

Mathematics 10 *or* **11.**
Physics 6A, 7A, 7B, 8A and 8B (*or* 6B).
Summer Thesis or Shop Work.

The student may now receive the degree of B.Sc. in Arts, with honours in Mathematics and Physics. In the Fifth Year the student should take a selection of the Fourth Year course for Electrical Engineering in Applied Science, and also Physics 9 and 10, and one of 11, 12, 13, 14, 17, and proceed with research work and a thesis with a view to an M.Sc. degree.

The course must therefore cover five years and may cover six. During the last year (the sixth), opportunity may sometimes be afforded to act as demonstrator with a salary, or to apply for Research Council Bursaries, etc. See also concluding paragraphs on "Course on Engineering Physics," page 273.

VI. DEGREE OF BACHELOR OF HOUSEHOLD SCIENCE (B.H.S.)

The first two years are to be taken in the Faculty of Arts of McGill University or of any other University where similar courses are studied, and the last two in the School of Household Science of Macdonald College, but the Dean of the Faculty of Arts of McGill University must pronounce on the qualifications of a candidate before he or she can be admitted to the Third Year of this course.

The two years in the Faculty of Arts may be either in the B.A. or the B.Sc. course as follows:—

B.A. Course—First Year

Compulsory:

Greek 1 *or* **2,** *or* **Latin 1.**
English 1 and 2.
***Mathematics 1.**
Chemistry 1.

And one of the following:—

History 1.
Latin 1, *or* **Greek 1** *or* **2.**
(if not already taken.)
French 1.
German 1 *or* **2.**

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* If three languages (exclusive of English) are taken, Mathematics may be omitted.

Second Year

Students shall choose one subject out of Division I and one out of Division II. In addition they must take three other subjects. One of these must be Chemistry. The others may be chosen from any of the divisions.

Division I	Division II	Division III	Division IV
Greek.	History.	Botany.	Education.
Latin.	Philosophy.	Chemistry.	Music.
English.	Economics.	Geology.	
French.	Pol. Science.	Physics.	
German.	Sociology.	Zoology.	
Hebrew.	Mathematics.		
	Psychology.		

B.Sc. Course—First Year

Chemistry 1.
English 1 and 2.
French 15.
Mathematics 1.
Physics 1 *or* **2.**

Second Year

English and German 3 *or* **4.**

Biology (Botany 1 and Zoology 1); Chemistry 2.

And one course from among the following: **Geology 1; Mathematics 2; Physics 2** *or* **3A; Economics 1** *or* **2; English 4; French 2; History 2; Philosophy 1; Psychology 1; Sociology 1.**

For subjects to be taken in the Third and Fourth Years, see Macdonald College Announcement.

DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE (B.Sc. IN AGR.)

(1) *Course for students who wish to qualify as Teachers.*

In this course the first two years are taken in the Faculty of Arts and the last two in the Faculty of Agriculture. In order that students taking this course may have their degree accepted as the academic requirement for the High School Diploma in the Province of Quebec, the courses in the first two years must be those laid down by the Protestant Committee of the Department of Education, as stated on page 182.

In the Third and Fourth years, taken in the Faculty of Agriculture at Macdonald College, the continuation subjects for the High School Diploma are:—Chemistry, Physics, and Botany, in which three full courses must be taken each year. At least one other full course must be taken each year, such course to be chosen with the approval of the Faculty from the following: Entomology, English, Economics, Zoology, Bacteriology, Horticulture.

In Chemistry, Physics and Botany the courses will be selected from the following, which appear in the Macdonald College Announcement:

Chemistry—Course 2—Organic Chemistry.
" 3—Analytical "
" 5—Biochemistry.
" 6—Chemistry of Soils and Fertilizers.
" 12—Physical Chemistry.

Physics— Course 3—Light.
" 4—Electricity.
" 5—Soil Physics.
" 6—Physical Measurements.

Botany— Course B-2—Plant Physiology.
" B-3—Histology and Cytology.
" B-4—Plant Morphology.
" B-5—Systematic Botany.
" P-2—Diseases of Plants.

(2) *Course for all Others.*

Those who do not desire to qualify for the High School Diploma may proceed to the Degree of B.Sc. in Agr. by taking the first two years of the general course for the B.Sc. in Arts and the Third and Fourth Years in the Faculty of Agriculture at Macdonald College.

Two subjects must be taken for continuation courses throughout the Third and Fourth Years. Additional subjects to complete the minimum requirement of five full courses (15 hours of class work per week) each year shall be chosen with the approval of the Faculty, from the courses offered in Agriculture.

PARTIAL STUDENTS

A limited number of partial students may be admitted to study each year in the Faculty of Arts. Partial students before registration must satisfy the Dean and the head of the department or departments which they propose to enter of their ability to follow the course or courses

they select, and they must fulfil all the requirements of classroom work and tests prescribed for regular students in these courses. Candidates will not be permitted to enter as partial students who have unsuccessfully attempted the matriculation examinations unless they have made an exceptionally high mark in the subject or subjects which they intend to select. Subject to the above limitations, lectures are open to partial students in both honour and general classes, but no course or courses taken by any such students can count for a degree except by virtue of a special vote of the Faculty. Medals, scholarships, exhibitions and prizes shall not be awarded to partial students. A certificate of any partial student's standing may be obtained at any time from the Dean if requested.

LIMITED UNDERGRADUATES

Students who have matriculated, but who for special reasons are not able to follow the regular curriculum of four years, may, if those reasons appear satisfactory to the Dean, be accorded the status of Limited Undergraduates. Such Limited Undergraduates may distribute their work for the degree over five, but not over more than eight years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular undergraduate curriculum, and shall conform to the time-table.

Limited Undergraduates will not be eligible for honour courses, scholarships, exhibitions, bursaries or prizes of any description. For fees, see page 134..

MID-SESSIONAL EXAMINATIONS

Except as hereinafter provided by this rule, all University mid-sessional examinations in courses of study conducted throughout the whole academic year are discontinued, but members of the teaching staff are at full liberty to give such interim tests or examinations as they may think requisite from time to time.

The final examinations in all half courses ending at mid-session may be held at mid-session as at present or during the final examination period in the Spring, at the option of each department interested. Any department desiring University accommodation for mid-sessional examinations in courses completed at the end of the first half term must apply in writing to the Dean not later than the first day of January.

SUPPLEMENTAL EXAMINATIONS

The following are the regulations governing supplemental examinations:—

A student conditioned in a course may remove the condition during the next Calendar session by passing—

(1) the supplemental examination in September, or,

(2) a special supplemental examination in February, or,

(3) upon application to the Dean and on payment of the fee prescribed for a supplemental (always on the understanding that there is no conflict in the time-table) at the sessional examination in May, as provided in the section (2) following. If by the close of that session the condition has not been removed, the student may take within the Calendar session next following, but not thereafter, one of the three separate examinations as enumerated above, but on the understanding that the fee payable in September or in May shall be the same as that prescribed for a special supplemental.

Students carrying conditions may, upon application, be permitted to take the regular examinations in their conditioned subjects during the next year, provided always that the arrangement of the time-table so permits.

Any student who fails in more than one-half of his subjects in the First Year shall be refused leave to return to the College unless he re-enter by passing the following September the full Senior Matriculation examinations, and any student who fails in one-half or more than one-half of his subjects in any subsequent year shall be obliged to repeat the year.

The fee for supplemental papers is $5.00 and for special supplementals $10.00 for each paper. A second supplemental examination in any subject is always ranked as a special supplemental.

DISTINCTION IN THE GENERAL COURSE

Students of exceptional merit in the General course will be awarded distinction at graduation in two classes, viz., Great Distinction and Distinction, and these awards will be made upon the student's record during his Second, Third and Fourth Years. At least an average first class standing will be required for Great Distinction and an average second class standing for Distinction.

ADVANCEMENT FROM YEAR TO YEAR

Advancement to the Second Year.—A student may proceed to the Second Year with any one full course (or its equivalent) unpassed.

Advancement to the Third Year.—A student may proceed to the Third Year with any one full course (or its equivalent) unpassed, unless that full course (or any part of it) belongs to the First Year.

Students of good standing, however, who have succeeded in passing all subjects required in the Second Year may be allowed by special per-

mission of the Dean to proceed into the Third Year carrying one condition from the First Year.

Advancement to the Fourth Year.—A student may proceed to the Fourth Year with any one full course (or its equivalent) unpassed, unless that full course (or its equivalent) belongs to the First or Second Year of his course.

Repeating a Year.—By special permission of the Dean, a student who is required to repeat a Year may, on application:—

(a) Be exempted from attending lectures and passing examinations in the subjects in which he has already passed;

(b) Be permitted to take, in addition to the subjects in which he has failed, one of the subjects of the following year in his course.

N.B.—The choice of subjects must involve no conflict of hours as printed in the time-table.

DOUBLE COURSES

I. ARTS AND APPLIED SCIENCE.

Candidates for the degrees of B.A. and B.Sc. (Applied Science) in six years will take the first three years in Arts. They will then enter the Faculty of Applied Science and devote the remaining three years entirely to the work of that Faculty. Only students in good standing will be permitted to take this course. Those who wish to do so must notify the Dean of the Faculty of Applied Science before the close of their First Year in Arts.

Descriptive Geometry, Freehand Drawing and Mechanical Drawing.—Not later than October 10th of their Second Year in Arts, students intending to enter this course must see the head of the department concerned and make arrangements with him for procuring private instruction in these subjects. They must report to him from time to time, and pass the prescribed tests in these subjects.

Surveying.—One-half of the surveying field work may be done in the fortnight *immediately after* the completion of the Third Year in Arts; the remainder in the latter part of the following September in connection with the Survey School then held for students entering from other Universities. In some cases it may be possible to do the whole of the survey field work in September in the School mentioned above. Students desiring to do this should apply to the Dean of the Faculty of Applied Science not later than the 1st of May.

The requirements for each of the three years in the Faculty of Arts are as follows:—

First Year

The curriculum as laid down for the B.A. degree, except that Physics and Mathematics and a modern language must be taken.

Second Year

French 2 *or* **German 5** (both continuation subjects).
Mathematics 2 and 4A.
Physics 3B and 4.

And two of the following:—

Economics 1.
English 4, 7 *or* **8.**
French 2 (if not already taken).

German 5 (if not already taken).
Greek 2 *or* **4.**
History 2.
Latin 2.
Philosophy 1.
Political Science 3.
Psychology 1.

Third Year

Physics 2.

And three of the following:—

English, any one of 4 to 11 inclusive, 15, 18; Latin 4; French 4; German 7; Philosophy 2 *or* **4** *or* **6; Psychology, any full course, 2-14; History 3** *or* **4; Economics and Political Science 4 to 17** (any full course *or* the equivalent of a full course).

The degree of B.A. will be conferred on double course students in Arts and Applied Science on the completion of the prescribed curriculum in Arts and the requirements of the Second Year in Applied Science.

II. ARTS AND ARCHITECTURE

Candidates for the degrees of Bachelor of Arts and Bachelor of Architecture will take the first three years in Arts to be followed by four in Architecture, omitting the First Year. Students entering Arts by senior matriculation will not be exempted from the operation of this rule.

The student must also choose at least two subjects for continued study during his three years in this Faculty. These subjects shall be designated continuation subjects and in each of them at least one full course or two half courses must be taken each year. The following are recommended as suitable continuation subjects, viz., Mathematics, Latin, English, History.

Students who wish to take this double course must notify the Dean of the Faculty of Applied Science before the close of their First Year in Arts.

Not later than October 10th, of their Second Year in Arts, students intending to take this course must make arrangements with the head of the Architectural Department for procuring private instruction in Free-hand Drawing, Architectural Drawing, and Architectural Geometry. They will be required to report from time to time as to their progress and pass an examination in these subjects before entering the course in Architecture.

The degree of B.A. will be conferred on the completion of the prescribed curriculum in Arts and the Second Year in Architecture.

III. ARTS AND MEDICINE

The degrees of B.A. and M.D. may be obtained in eight years, of which the first three shall be taken in the Faculty of Arts and the remaining five in the Faculty of Medicine. The course in Arts is as follows:—

(1) B.A., M.D.

First Year

The subjects of the First Year shall be the same as those for the First Year of the B.A. course, with Physics compulsory.

Second Year

Chemistry 1 and any four subjects of the Second Year of the B.A. course.

Third Year

Chemistry 2 and **Biology 1M** and any three subjects of the Third Year of the B.A. course.

The degree of B.A. will be conferred on the completion of the above curriculum in Arts and of the First Year in Medicine.

(2) B.Sc., M.D.

For the requirements of the B.Sc., M.D. course, see page 156.

IV. ARTS AND DENTISTRY

The requirements in Arts for the double course leading to the degrees of B.A. and D.D.S. are the same as those for the B.A., M.D.

V. ARTS AND COMMERCE

Graduates in Commerce may obtain the B.A. degree by one or more additional years of residential study in Arts provided always that during their whole course of study they have satisfied all the regular requirements for the B.A. degree.

VI. ARTS AND THEOLOGY

Students who are pursuing a double course in Arts and Divinity (six years at least) will take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts, less a half course in each of these Years, or a whole course in either. They may also select one instead of two sciences in Division III of the General course, provided always that they have already taken a science subject in the First Year.

PRE-PROFESSIONAL COURSES

FOR LAW, MEDICINE AND DENTISTRY

The Faculty of Arts offers a preparatory or pre-professional course of study for all students intending to proceed to the study of Law, Medicine or Dentistry. This course is of two years' duration and is required of all students for admission into these Faculties. The course for admission into Law is identical with the first two years leading to the degree of Bachelor of Arts; that for admission to Medicine and Dentistry is as follows:—

First Year

Latin *or* **French.**
English.
Mathematics.
Physics.
Inorganic Chemistry.

Second Year

Biology, Organic Chemistry and any three of the following subjects: Latin, French, German, English, Mathematics, Philosophy, Psychology, Political Science and Physics. The following, for example, is a standard course in this year:—

Latin, French *or* **German.**
English.
Philosophy, Psychology *or* **Physics.**
Biology.
Organic Chemistry.

Latin is recommended in the First Year and all students who intend to practise medicine in the Province of Quebec should remember that at least an elementary knowledge of French is required of all candidates who sit for the preliminary examination for admission to the study of medicine.

Students intending to enter this Year by Senior Matriculation or by the completion of one year's work in other universities should note carefully that at least one adequate successful year in both Physics and Inorganic Chemistry is required. Candidates are advised, as a rule, not to attempt to enter the Second Year on the strength of Senior Matriculation or Upper School certificates unless these certificates show at least a high second class in the subjects of the First Year.

COURSES OF LECTURES IN ARTS

The hours of all General lectures and most of the Honour lectures are indicated. In the case of the other Honour lectures the hours will be arranged by the several departments at the opening of the session.

DEPARTMENT OF BOTANY

PROFESSOR:—FRANCIS ERNEST LLOYD.

PROFESSOR OF COMPARATIVE MORPHOLOGY AND GENETICS:—

CARRIE M. DERICK.

ASSOCIATE PROFESSOR:—GEORGE W. SCARTH.

INSTRUCTOR IN BOTANY (HALF TIME):—JANE D. SPIER, M.Sc.

RESEARCH FELLOW (HALF TIME):—JANE D. SPIER, M.Sc.

DEMONSTRATORS:—R. D. GIBBS (on leave of absence).
C. W. ARGUE.

RESEARCH ASSOCIATE:—
DR. CLARA FRITZ, Forest Products Laboratory.

RESEARCH ASSOCIATE, 1927-28:—
VLADIMIR MORAVEK, Ph.D., Privatdocent, Institute for Plant Physiology, Masaryk University.

1. **General Botany.** Introductory Course. First Year.
2 hrs., 2nd term; Mon., Wed., at 2; 2 hrs. lab., Tues. or Friday, 2-4.
Professor Lloyd, Mr. Scarth and ————.
(Taken with Zoology 1 as 1st year Biology.)

1M. **General Biology (Plants).** Parts I, Microscopy (October) and III, Plant Biology (March to April). For pre-medicals.
2 hrs., Tu., Th., at 2; 6 hrs. lab., Mon., Wed., Fri., 9 to 11.
(Mornings, alternating with Chemistry 1.)
Professors Lloyd and Scarth.
See **Zoology 1M** for Part II.

2. **Plant Morphology and Taxonomy.** Second Year.
3 hrs.; Tu., Th., Sat., at 9; 4 hrs. lab.
Professor Derick.

3. **Evolution and Genetics.** Second or Third Year.
2 hrs.; Mon., Wed., Fri., at 9; 2 hrs. lab.
(May be taken without laboratory work.)
Professor Derick.

4. **Histology: Microtechnic.** Second or Third Year.
3 hrs.; Mon., Wed., Fri., at 2; 4 hrs. lab.
Professor Lloyd.

5. **Introductory General Physiology.** Third or Fourth Year Arts, optional in Medicine, except for B.Sc., M.D. degree.
3 hrs.; 1st term; Mon., Wed., Fri., at 9; 4 hrs. lab.
Professors Lloyd and Scarth.

Note:—Courses 5 and 7 constitute plant physiology for one session.

6. **Plant Pathology.** Fourth Year.
3 hrs., Mon., Wed., Fri., at 2; 4 hrs. lab.
Professor Derick.

7. **Plant Physiology: Problems.** Third or Fourth Year Arts, 2nd term.
3 hrs. reading; 4 hrs. lab.....Professors Lloyd and Scarth.
Note:—Courses 5 and 7 constitute plant physiology for one session.

8. **Pharmaceutical Botany.** 2 hrs.....Mr. Argue.

9. **Taxonomy: Method.**
A short course in April on request.

Honour Course in Biology

Prerequisite: Botany 1 and Zoology 1; *or* Botany 1M and Zoology 1M, together with Chemistry 1 *or* Physics 1.
Second Year: Botany 2 and 3 (with laboratory work); Zoology 2; Physics 1, *or* Chemistry 1.
Third Year: Botany 4 and 5; Zoology 3 and 6.
Fourth Year: Botany 6 and 7; Zoology 4 and 5.

Honour students should acquire a reading knowledge of scientific French and German. For Genetics and Physiology an elementary knowledge of statistical methods is advised.

Graduate Courses

See page 457.

DEPARTMENT OF CHEMISTRY

DIRECTOR:—R. F. RUTTAN (on leave of absence).

PROFESSOR OF INORGANIC CHEMISTRY:—F. M. G. JOHNSON.

PROFESSOR OF PHYSICAL CHEMISTRY:—OTTO MAASS.

PROFESSOR OF ORGANIC CHEMISTRY:—G. S. WHITBY.

PROFESSOR OF INDUSTRIAL AND CELLULOSE CHEMISTRY:—HAROLD HIBBERT

ASSOCIATE PROFESSOR:—N. N. EVANS.

ASSISTANT PROFESSORS—
A. R. McLEAN.
W. H. HATCHER.

DEMONSTRATORS:—
K. S. BUXTON.
A. CAMBRON.
R. N. CROZIER.
W. GALLAY.
M. KATZ.
W. H. MUELLER.
E. MULES.
J. B. PHILLIPS.
F. J. TOOLE.
H. R. WYMAN.

(Unless otherwise specified, all lectures and laboratory courses are given in the Chemistry Building.)

1. **General Chemistry.**

3 hrs.; Mon., Wed., Fri.
Section A—Professor Hatcher at 12.
Section B—Professor Evans at 2.
Section A—6 hrs. lab.; Tu. and Th., 9-12.
Dr. Hatcher and Messrs. W. H. Mueller and J. B. Phillips.
Section B—4 hrs. lab.; Tu., Th., 3 to 5.
Assistant Professor MacLean and Messrs. K. S. Buxton, M. Katz and H. R. Wyman.

Text-books:—Alex. Smith, General Chemistry for Colleges, new edition; Newell's College Chemistry; Macpherson and Henderson, General Chemistry.

2. **Organic Chemistry** (No. 56 Fac. App. Sci.). Pre-medical, Second Year.

3 hrs., 1st term; Tu., Th., Sat., at 12.
2 hrs., 2nd term; Tu., and Th., at 12.

6 hrs. lab., 2nd term. Professor Whitby, Assistant Professor MacLean and Messrs. K. S. Buxton, H. R. Wyman and E. Mules.

6 hrs. lab., 2nd term. (Biological Building.) 2-5, Wed. and Fri. Professor Hatcher and Messrs H. R. Wyman., Mules and Cambron.

Text-books:—Remsen; Holleman's Organic Chemistry or Bernthen's Organic Chemistry; Price and Twist, Practical Organic Chemistry.

3. **Analytical Chemistry.**

(a) QUALITATIVE ANALYSIS.

2 hrs., 1st term; 6 hrs. lab.

Students who can do so, are recommended to take this course with the students in Applied Science, during the month of September instead of the regular term course.

Associate Professor Evans and Messrs. Buxton and Wyman.

Text-books:—Stieglitz, Qualitative Analysis; W. A. Noyes, Qualitative Analysis.

(b) QUANTITATIVE ANALYSIS.

1 hr., 2nd term; 12 hrs. lab.

Professor Johnson and Mr. F. J. Toole.

Text-book:—Cumming and Kay, Quantitaive Analysis.

4. **Elementary Physical Chemistry** (No. 58 Fac. App. Sci.).

2 hrs., sess.; Mon., Fri., at 12.....Professor Maass.

Text-book:—Walker, Introduction to Physical Chemistry.

*5. **Organic Chemistry (Advanced)** (No. 64 and 65 Fac App. Sci.).

3 hrs.; Mon., Wed., Fri., at 10.....Professor Whitby.
12 hrs. lab.

Professor Whitby, Messrs. A. Cambron and W. Gallay.

*6. **Inorganic Chemistry (Advanced)** (No. 72 Fac. App. Sci.).

3 hrs.; Tu., Th., Sat., at 11.....Professor Johnson

Text-book:—Systematic Inorganic Chemistry, Caven and Lauder.

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* Courses for Graduates and Honour Students.

*7. **Physical Chemistry (Advanced)** (No. 66 Fac. App. Sci.).
2 hrs.; Wed., Fri., at 9.....Professor Maass.
6 hrs. lab.; Mon., Wed., 2 to 5..Professor Maass and ————

Text-books:—Taylor, Treatise on Physical Chemistry; Finlay, Practical Physical Chemistry.

*8. **Quantitative Analysis (Advanced)** (No. 67 Fac. App. Sci.).
1 hr.....Professor Johnson and Mr. F. J. Toole.
12 hrs. lab.

9. **Historical Chemistry** (No. 74 Fac. App. Sci.).
1 hr., 2nd term.....Professor Hatcher.

Text-book:—Venable, 1922 ed., History of Chemistry.

10. **Organic and Biological Chemistry.**
2 hrs., 2nd term; Tu. and Th., at 12.
6 hrs. lab., 2nd term; Wed. and Fri., 2 to 5.
(Biological Building.)

Professor Hatcher and Messrs. H. R. Wyman and K. S. Buxton.

Text-book:—Remsen and Special Synopses.

11. **Electro-Chemistry** (No. 70 Fac. App. Sci.).
2 hrs., 1st term; Mon., at 9, Fri., at 12.....Professor Maass.

Text-book:—Creighton and Fink, Electro Chemistry.

12. **Food Chemistry** (No. 73 Fac. App. Sci.).
1 hr., 2nd term; Th., at 10.....
6 hrs. lab., 2nd term.

Professor Whitby and Assistant Professor MacLean and Messrs. A. Cambron and W. Gallay.

Text-book:—Woodman's Food Analysis.

13. **Industrial Inorganic Chemistry** (No. 68 Fac. App. Sci.).
2 hrs., 1st term; Wed., Fri., at 11. Prerequisite Chem. I and II.
Professor Harold Hibbert.

14. **Industrial Organic Chemistry** (No. 69 Fac. App. Sci.).
2 hrs., 2nd term; Wed., Fri., at 11. Prerequisite Chem. I and II.
Professor Harold Hibbert and Associated Experts.

* Courses for Graduates and Honour Students.

*15. **Colloid Chemistry** (No. 75 Fac. App. Sci.).
2 hrs., with lab.....Professor Johnson and ————————.

Honour Course in Chemistry

Second Year: Chemistry 1.

Third Year: 2, 3, 4; Physics 2; and a half-course in Calculus or Biology or Geology or Mineralogy or scientific German.

Fourth Year: (a) 5, 7, 9, 10, or (b) 6, 7, 8, 9; Physics 3A.

Honour Course in Chemistry and Biology

Prerequisites: French 15; German 3; Physics 1.

Second Year: Chemistry 1; Botany 1; Zoology 1; French 2 and German 4.

Third Year: Either Physics 2 or French 4 or German 7 and Chemistry 2 (first term only), 3 (a) and 10; Zoology 2; Botany 2 or 5 and 7.

Fourth Year: A full course in Physics or Biology or advanced Chemistry and Chemistry 3 (b), 15; Zoology 4; Botany 4.

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* Courses for Graduates and Honour students.

DEPARTMENT OF CLASSICS.

PROFESSOR:—W. D. WOODHEAD.

ASSOCIATE PROFESSOR OF CLASSICAL PHILOLOGY:—CLIVE H. CARRUTHERS.

ASSOCIATE PROFESSOR OF GREEK:—CARLETON W. STANLEY.

ASSOCIATE PROFESSOR OF CLASSICS:—ALEXANDER M. THOMPSON.

SPECIAL LECTURER IN HELLENISTIC GREEK:—PRINCIPAL J. SMYTH.

SESSIONAL LECTURER AND TUTOR (ROYAL VICTORIA COLLEGE):—ELIZABETH A. IRWIN.

LECTURER IN CLASSICS:—PAUL F. MCCULLAGH.

Greek

All students taking Honours in Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended: Goodwin's Greek Grammar (Ginn & Co.); Liddell and Scott's Greek Lexicon (abridged or intermediate); Kiepert's Atlas Antiquus (Williams and Norgate); Smith's Smaller Classical Dictionary (Everyman Series, Dent).

1. **Beginners' Greek.**

3 hrs.; Tu., Th., Sat., at 10.....Mr. McCullagh.

Text-books:—Benner and Smyth, Beginner's Greek Book (American Book Company); Colson's Greek Reader (Macmillan).

2. **Greek.** First and Second Years.

3 hrs.; Mon., Wed., Fri., at 11.....Associate Professor Stanley.

Xenophon, Anabasis I. and II. (Goodwin and White, Ginn & Co.); Homer, Iliad VI (Leaf and Bayfield, Macmillan's Elementary Classics); Translation at sight.

3. **Greek.** Second Year.

(Open only to Students taking a B.A. degree in preparation for Y.M.C.A. appointments.)

The Gospels in the Greek World.....Principal Smyth.

A study of cultural and religious conditions in the first two centuries of our era, with reading of select Greek texts and literature dealing with the period.

4. **Greek.** Second Year.
3 hrs.; Tu., Th., Sat., at 11.....Associate Professor Thompson.

Plato, Apology (Adam, Cambridge University Press); Homer, Odyssey IX (Edwards, Cambridge University Press); Euripides, Alcestis (Blakeney, Bell's Illustrated Classics); Translation at sight (Jerram, Anglice Reddenda, Second Series, Oxford University Press).

5. **Greek.** Third and Fourth Years.
3 hrs. (To be given in 1929-1930.)

Thucydides I (Marchant, Macmillan); Demosthenes, On the Peace, Philippic II, Chersonese, Philippic III (Sandys, Macmillan); Euripides, Bacchæ (Tyrrell, Macmillan); Translation at sight (Fowler, Sportella).

6. **Greek.** Third and Fourth Years. Prerequisite: 2 or 4.
3 hrs.; Tu., Th., Sat., at 12.....Associate Professor Stanley.

Herodotus IX (Abbott, Clarendon Press); Xenophon, Oeconomicus (Sewell, Pitt Press); Aristophanes, Clouds (Forman, American Book Company); Translation at sight (Fowler, Sportella).

Honour Course in Greek

This will consist of 2 *or* 4, and 6, and the following:—

11. **Greek.** Second Year.
3 hrs.; Tu., Th., Sat., at 9.....Associate Professor Carruthers.

Homer, Iliad XXII and XXIV (Edwards, Cambridge University Press); Aeschylus, Prometheus Vinctus (Sikes and Willson, Macmillan); Lucian, Menippus (Mackie, Cambridge University Press): Greek Prose Composition and Sight Translation.

12. **Greek.** Third and Fourth Years.
3 hrs. (To be given in 1929-1930).

Plato, Republic I, II as far as 367 E (Warren, Republic I-V, Macmillan); Aristophanes, Birds (Merry, Clarendon Press); Sophocles, Œdipus Rex (Cambridge University Press, 6/-); Translation at sight: Greek Prose Composition.

13. **Greek.** Third and Fourth Years.
3 hrs.; Tu., Th., Sat., at 10.....Professor Woodhead.

Plato, Gorgias (Lodge, Ginn & Co.); Sophocles, Antigone (Jebb); Theocritus (Kynaston, Clarendon Press); Greek Prose Composition and Translation at sight.

Latin

All students taking Honours in Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended:— New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman's Series, Dent).

The following book is also recommended: Kiepert, Atlas Antiquus (Williams and Norgate).

1. Latin. First Year.

3 hrs.; Mon., Wed., Fri., at 10.

Petrie, Latin Reader, with Introduction to Roman History (Oxford, Clarendon Press); Latin Prose Composition (Pilsbury, Clarendon Press); Translation at sight.

2. Latin. Second Year.

3 hrs.; Tu., Th., Sat., at 12.....Associate Professor Thompson.

Livy XXI (Dimsdale, Cambridge University Press); Horace, Odes I (Page, Macmillan); Virgil, Aeneid IV (Stephenson, Macmillan's Elementary Classics); Translation at sight (Jerram, Anglice Reddenda, Second Series, Clarendon Press).

3. Latin. Third and Fourth Years.

3 hrs. (To be given in 1929-1930).

Cicero, Selected Letters (Abbot, Ginn & Co.); Virgil, Eclogues (Papillon and Haigh, Clarendon Press); Plautus, Captivi (Lindsay, Clarendon Press); Translation at sight (Pope and Bradshaw, Longmans).

4. Latin.

3 hrs.; Mon., Wed., Fri., at 12....Associate Professor Thompson.

Sallust, Catiline (Summers, Cambridge University Press); Horace, Epistles (A. S. Wilkins, Macmillan); Translation at sight (Pope and Bradshaw, Longmans).

5. Latin.

At the beginning of the second term, if not before, an advanced class will be formed to prepare for Second and Third Year Scholarships This class will be open to qualified students of the first two years.

Honour Course in Latin

This will consist of 2 and 4, and the following:—

11. Latin. Second Year.

3 hrs.; Mon., Wed., Fri., at 9.....Mr. P. F. McCullagh.

Cicero, Philippic II (Peskett, Cambridge University Press); Catullus (Simpson, Macmillan); Lectures on Roman Literature; The Writers of Rome (J. Wight Duff, Oxford Clarendon Press); Latin Prose Composition.

12. Latin. Third and Fourth Years.

3 hrs.; Mon., Wed., Fri., at 9.....(To be given in 1929-1930).

Juvenal I, III, V, VII, VIII, X (Duff, Cambridge University Press); Seneca, Select Letters (Summers, Macmillan).

13. Latin. Third and Fourth Years.

3 hrs.; Mon., Wed., Fri., at 9....Associate Professor Carruthers.

Tacitus, Histories I-II (Godley, Macmillan); Virgil, Georgics I. II, IV (Papillon and Haigh, Clarendon Press); Latin Prose Composition and Sight Translation.

Honour Course in Classics

Greek: 2 *or* **4, 6, 11, 13.**
Latin: 2, 4, 11, 13.

ANCIENT HISTORY

Greek and Roman History and Institutions: a lecture and reading course open to students of the Second, Third and Fourth Years. May be taken as a half-course in the first or second term.

3 hrs.; Mon., Wed., Fri., at 11.....The Staff in Classics.

Graduate Course in Classics

See page 464.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

PROFESSOR:—STEPHEN LEACOCK.

ASSOCIATE PROFESSORS:— J. C. HEMMEON. J. P. DAY.

ASSISTANT PROFESSORS:— JOHN C. FARTHING. W. GOFORTH.

SESSIONAL LECTURER:—JOHN CULLITON.

GRADUATE FELLOWS:— 1927-28. S. HAYES. W. BOOS. M. GORDON.

1. **Elements of Political Economy (General Economics).** Second Year. This course is open to Arts students.
3 hrs.; Mon., Wed., Fri., at 11.
Professor Leacock, Associate Professor Hemmeon and Mr. Culliton.

2. **Elements of Political Economy (Social Economics).** This course is open to Theological students proceeding to a degree in Arts, to students in the School for Social Workers, to partial students, and, by permission, to General students.
Mon., Wed., Fri., at 11.
Professor Leacock, Associate Professor Hemmeon and Assistant Professor Farthing.

3. **Elements of Political Science.** Second Year.
3 hrs.; Mon., Wed., Fri., at 12.
Professor Leacock and Associate Professor Hemmeon.

4. **Political and Social Theories of Modern Times.** Third Year.
3 hrs., 1st term; Mon., Wed., Fri., at 2.....Professor Leacock.

5. **Economic Aspects of the British Empire.** Third Year.
3 hrs., 2nd term: Mon., Wed., Fri., at 2.....Professor Leacock.

6. **Labour Problems.** Third Year.
3 hrs., 1st term: Tu., Th., Sat., at 12.
Associate Professor Hemmeon.

7. **Money and Banking and Statistics.** Third Year.
3 hrs., 2nd term: Mon., Wed., Fri., at 10.
Associate Professor Day.

*8. **Canada: Industrial and Economic Problems.** Third Year.
3 hrs., 1st term: Tu., Th., Sat., at 11.
Associate Professor Hemmeon and Mr. Culliton.

*9. **The Government of Canada.** Third Year.
3 hrs., 2nd term: Mon., Wed., Fri., at 3.
Professor Leacock and Mr. Culliton.

*10. **Political Economy till 1776.** Fourth Year.
3 hrs., 1st term: Tu., Th., Sat., at 11.
Associate Professor Hemmeon

*11. **Political Economy from 1776.** Fourth Year.
3 hrs., 2nd term: Mon., Wed., Fri., at 3.....Professor Leacock.

12. **International Trade and Trade Policy.** Fourth Year.
1st term: Mon., Wed., Fri., at 10.....Associate Professor Day.

13. **Public Finance.** Fourth Year.
3 hrs., 2nd term: Tu., Th., Sat., at 12..Associate Prof. Hemmeon.

14. **Transportation.** Fourth Year and Graduate Students.
3 hrs., 2nd term: Mon., Wed., Fri., at 9.
Assistant Professor Goforth.

15. **Social and Industrial Legislation.** Fourth Year and Graduate Students.
3 hrs., 1st term, in alternate years. Given in 1929-30.
Mon., Wed., Fri., at 12.....Assistant Professor Farthing.

16. **Great Britain: Economic and Fiscal Problems.** Fourth Year and Graduate Students.
3 hrs., 2nd term, in alternate years. Given in 1929-30.
Mon., Wed., Fri., at 12.....Associate Professor Day.

17. **Economic Factors in the Evolution of Society (till 1800).** Fourth Year and Graduate Students.
3 hrs., 1st term, in alternate years. Given in 1928-29.
Mon., Wed., Fri., at 12.....Assistant Professor Farthing.

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* For the session 1928-29 courses 8 and 9 will be given to both the Third and Fourth Years, and courses 10 and 11 omitted.

18. **Economic Factors in the Evolution of Society (after 1800).** Fourth Year and Graduate Students.
3 hrs., 2nd term, in alternate years. Given in 1928-29.
Mon., Wed., Fri., at 12.....Associate Professor Day.

19. **Development of Public Policy in Canada, 1867-1897. Parliamentary Debates and Contemporary Documents.** Seminar course for Graduate students in Arts and Commerce.
3 hrs., 1st term.
Mon., Wed., Fri., at 3.....Professor Leacock.

20. **Development of Public Policy in Canada, 1867-1897. Parliamentary Debates and Contemporary Documents.** Seminar course for Graduate Students in Arts and Commerce.
3 hrs., 2nd term.
Tu., Th., Sat., at 10.....Associate Professor Hemmeon.

31. **Economic Geography of the Pacific.** Third and Fourth Years.
3 hrs., 1st term.
Mon., Wed., Fri., at 2.....Assistant Professor Goforth.

32. **Political Relations of Pacific Countries.** Third and Fourth Years. 3 hrs., 2nd term.
Mon., Wed., Fri., at 2.....Assistant Professor Goforth.

33. **Financial and Monetary Systems of Pacific Countries.** Third and Fourth Years.
3 hrs., 2nd term.....Associate Professor Day.

For the courses in Economics and Political Science given in the School of Commerce, see Special Announcement.

Honour Courses

Students taking the full Honour course in Economics and Political Science take in their Second Year courses 1 and 3, together with three other courses as approved by the Department; in their Third Year the courses indicated above, together with one approved course from another department, and in their Fourth Year the courses indicated above, together with one approved half course from another department.

Students taking Honour courses in the whole or in half of another department (see page 152) may be granted honours in Economics (without Political Science) by taking courses, 1, 3, 6, 7, 12, 14 or 15 or 16

and either 8 and 9 or 10 and 11; similarly, students taking Honour courses in the whole or in half of another department may be granted honours in Political Science (without Economics) by taking courses 1, 3, 4, 5, 13, 16 or 18 and either 8 and 9 or 10 and 11.

Courses 31, 32 and 33 may be substituted for any of the above options, but may not be counted in competition for scholarships or fellowships. Students in the Department of Economics and Political Science are expected to spend a considerable proportion of their time in the preparation of class reports, essays, etc., in addition to the lectures and ordinary reading.

GRADUATE COURSES

See page 466.

DEPARTMENT OF EDUCATION

DEAN OF THE SCHOOL FOR TEACHERS, MACDONALD COLLEGE, AND PROFESSOR OF EDUCATION:—SINCLAIR LAIRD.

1. **Principles of Education; Psychology of Education; History of Education.** Third Year.
   3 hrs., 1st term; Mon., Wed., Fri., at 5.
   This course is a prerequisite for Course 2, and for the Course in Practical Teaching.

2. **(a) Methods of Teaching.** Fourth Year.
   A. Principles of general method.
   B. Special methods in elementary subjects.
   C. Special methods in High School subjects.

   (b) School and Class Management. Fourth Year.
   A. School administration, and school law and regulations of the Province of Quebec.
   B. Class management and discipline.
   3 hrs., 2nd term; Mon., Wed., Fri., at 5.

Courses 1 and 2 are required for the High School Diploma of the Province of Quebec, together with (a) fifty half-days of practice teaching and criticism lessons under expert supervision; and (b) special courses in methods of teaching French, music and drawing.

THE TRAINING OF TEACHERS

THE HIGH SCHOOL DIPLOMA

This diploma is valid only in the Protestant Schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this diploma. General regulations

applying to candidates for any grade of diploma apply also to candidates for high school diplomas.

Each candidate must (a) make application upon the authorized forms, (b) be a British subject or satisfy the Central Board that he has begun the necessary proceedings to become such, (c) submit a physician's certificate to show that he is in good health and free from physical and mental defects that would seriously interfere with his usefulness as a teacher.

In addition, the Protestant Committee of the Department of Education of the Province of Quebec have laid down the following requirements for the High School Diploma:—

Graduation from some Canadian or other British University, with degree courses as follows:—

(*a*) *Academic.*

First Year

Latin.	Mathematics.	History, *or* a Science subject, *or* Greek.
English.	French.	

Second Year

Latin.	Mathematics.	A Science subject *or* Greek.
English.	French *or* History.	

It is provided, however, that a candidate may omit in the Second Year any three of these subjects, except English, in which he has taken at least 60% in the First Year.

(*b*) *Professional.*

Candidates for High School Diplomas must also take at least two full University courses in the Theory and Practice of Education; all in accordance with a syllabus of studies submitted by the University authorities and approved by the Protestant Committee of the Department of Education.

Graduates in Arts, with the academic standing in the First and Second Years prescribed above, may also qualify for High School Diplomas by taking a year of post graduate studies in the University, with the major part of the candidate's work taken in the Department of Education; all in accordance with the syllabus of studies approved by the Protestant Committee.

In the meantime, however, the following will be accepted as meeting the professional requirements:—

(1) The successful completion of courses 1 and 2 in the Department of Education, during the last two years of their undergraduate course, Course 1 in the Third Year and Course 2 in the Fourth.

(2) Successful completion of special courses in methods of teaching French, music and drawing. These courses are held in the Montreal High School on Tuesday afternoons throughout the session. Fee, $16.00, payable to the Bursar, McGill University.

(3) Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board of Examiners).

The course in Practice Teaching is at present divided into two parts. The first part is taken in September preceding the Fourth Year. Education Course 1 is a prerequisite. The second part of the course in Practice Teaching is taken in May and June after the Fourth Year examinations.

ELEMENTARY, INTERMEDIATE AND KINDERGARTEN DIPLOMAS

The training for these diplomas is given at Macdonald College. (See Macdonald College Announcement.)

COURSES FOR TEACHERS OF SPECIAL SUBJECTS

French. A summer school for teachers of French leading to a Specialist Diploma recognized by the Provincial Department of Education.

Kindergarten Assistants. A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Department of Education. This diploma is accepted for entrance to the Kindergarten class at Macdonald College.

Physical Education. A two-years' course leading to a diploma for Teachers in Physical Education recognized by the Provincial Department of Education. (This course is given under the Department of Physical Education.)

DEPARTMENT OF ENGLISH

PROFESSOR:—CYRUS MACMILLAN.

ASSOCIATE PROFESSORS:—GEORGE W. LATHAM. HAROLD G. FILES.

ASSISTANT PROFESSOR:—A. S. NOAD.

LECTURERS:—JEAN GURD. MARY MACKENZIE.

ASSISTANTS:—A. R. McBAIN. ESTHER ENGLAND. DOROTHY HAINES. LLOYD JENKINS. R. DE WOLFE MacKAY.

LECTURER AND DIRECTOR IN PLAY PRODUCTION:—LEONA GRAY.

1. **English Composition.**
Sat., at 12....Assistant Professor Noad, Miss Gurd and Assistants. Assistant Professsor Files will have the general direction of this course. Section and weekly conference hours to be arranged.

2. **English Literature.**
General Course from Anglo-Saxon times to the present day.
Tu., Th., and, at the pleasure of the instructor, Sat. at 12....
Professor Macmillan and Assistants
Weekly conference hours to be arranged. Mr. McBain will have the general direction of the tutorial conferences.

1A. **English Composition.**
1 hr. per week for 1st term in Second Year.
All students who fail in English 1 are required to take this course.

3. **English Composition.**
Half course. An advanced course open to a limited number of students who desire more practice in writing after having completed English 1.
Hours to be arranged.....Associate Professor Files.

4. **English Literature in the Nineteenth Century.**
Mon., Wed., Fri., at 3.....Associate Professor Latham

5. **Spenser and Milton.**
Half course, 2nd term. Tu., Th., Sat., at 12.....
Associate Professor Latham.
Given in 1928-1929. Omitted in 1929-1930.

6. **Shakespeare (Six Plays).**
Mon., Wed., Fri., at 10.....Professor Macmillan.
May be taken in two successive years.

7. **English Literature in the Eighteenth Century.**
Mon., Wed., Fri., at 12.....Associate Professor Files.
Given in 1928-1929. Omitted in 1929-1930.

8. **Argumentation, Debating, and the Forms of Public Address.**
Tu., 3 to 5; conference hours to be arranged.....
Associate Professor Latham, Assistant Professor Noad and Assistants.
The attendance in this course is limited to 40 men. Omitted in 1928-1929.

9. **English Poetry in the Nineteenth Century.**
Mon., Wed., Fri., at 11.....Professor Macmillan and Assistants.
Given in 1928-1929. Omitted in 1929-1930.

10. **The English Novel, from Richardson to the Present Time.**
Tu., Th., Sat., at 11.....Associate Professor Files.

11. **The English Drama, 1590-1642.**
Mon., Wed., Fri., at 11.....Professor Macmillan and Assistants.
Omitted in 1928-1929.

12. **Anglo-Saxon; English Literature Up to the Norman Conquest.**
Mon., Wed., Fri., at 2.....Associate Professor Latham.

13. **The Technique of the Drama.**
Theory and practice. Lectures, conferences and practical work in play production on the stage in the Moyse Hall, designing, lighting and scenic effects, etc.
Tu. and Th. at 10 a.m.; laboratory periods to be arranged....
Professor Macmillan, Miss Gray and Assistants.
The attendance in this course is limited. Application must be made at the beginning of the session. Courses 3, 6 and 11 are recommended to students taking this course.

14. **Chaucer.**
Half course, 1st term; Tu., Th., Sat. at 12.....
Associate Professor Latham.
Given in 1928-1929. Omitted in 1929-1930.

15. **American and Canadian Literature.**
Half course, 2nd term.
Mon., Wed., Fri., at 12.....
Professor Macmillan and Associate Professor Latham.
Given in 1928-1929. Omitted in 1929-1930.

16. **Comparative Literature.**
The influence of English Literature upon the continent of Europe in the 18th and 19th centuries.
Tu., Th., Sat., at 9.....Assistant Professor Noad.
Given in 1928-1929. Omitted in 1929-1930.

17. **Comparative Literature.**
The literary influence of the Continent upon England since 1600; a study of typical forms.
Tu., Th., Sat., at 9.....Assistant Professor Noad
Omitted in 1928-1929.

18. **The English Bible.**
Half course, 1st term; Tu., Th., Sat., at 9.....
Professor Macmillan and Assistants.
Omitted in 1928-1929.

19. **English Literature from the Restoration to the Death of Dryden.**
Half course, 1st term; Mon., Wed., Fri., at 12.....
Associate Professor Files.
Omitted in 1928-1929.
(Not open to students who have taken course 7.)

20. **Early English: English Literature from 1200 to 1450.**
Tu., Th., Sat., at 12.....Associate Professor Latham.
Omitted in 1928-1929. Given in 1929-1930.
(Open only to students who have taken course 12 or its equivalent.)

21. **Political Satire Since the Renaissance.**
Half course, 1st term; Mon., Wed., Fri., at 11..Professor Macmillan.
Omitted in 1928-1929.

Second Year Courses

Courses 4, 6, 7, 15, and in special cases 8, 9, 10, 11, 13 and 19 are open to Second Year students.

Honour Course

Second Year:—Two courses selected from 3, 4, 6, 7, 8, 15, 18, 19,

Third Year—Four courses.

Fourth Year:—Four courses not taken in the Third Year.

Courses 5, 6, 12, 14 and 20 are compulsory for Honours.

English Requirements for the Honour Courses in English and Latin, English and French, and English and German.

Second Year:—Consult the Head of the Department.

Third Year:—Any courses aggregating six hours a week, including 12, chosen from 4 to 21, not previously taken.

Fourth Year:—Any courses aggregating six hours a week, including 12, chosen from 4 to 20, not previously taken. (Course 12 and one course selected from 5, 14, and 21 are compulsory.)

English Requirements for the Honour Course in English and Other Subjects

Second Year:—Consult the Head of the Department.

Third Year:—Courses aggregating six hours, chosen from 4 to 21, not previously taken.

Fourth Year:—Any courses aggregating six hours, chosen from 4 to 21, not previously taken.

One course selected from 5, 12, 14 and 20 is compulsory in either the Third or the Fourth Year.

Graduate Courses

See page 468.

DEPARTMENT OF GEOLOGY AND MINERALOGY

PROFESSOR:—J. AUSTEN BANCROFT. (Absent on leave.)

PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM.

ASSOCIATE PROFESSOR OF GEOLOGY:—JOHN J. O'NEILL.

ASSOCIATE PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK.

LEROY FELLOW IN GEOLOGY:— ————————

1. **General Geology.** (Applied Science 141.)
3 hrs.; Mon., Wed., Fri., at 9.....Professors Graham and Clark.
Excursions on Saturday mornings for five or six weeks after term opens. On their discontinuance, 1 hr. lab. Students taking this course will be excused from any classes which conflict with the excursions.
Text-book:—Cleland, Geology, Physical and Historical.

2. **Physiography.**
2 hrs.; Tu., Th., at 12.....Associate Professor O'Neill.
Prerequisite:—1.

3. **Historical Geology (Advanced).**. (Applied Science 152.)
1 hr.; Mon., at 12, and 1 lab. period in 2nd term on Mon., 2 to 5.
Prerequisite:—1.....Associate Professor Clark.

4. **Geology of Canada.** (Applied Science 149.)
1 hr., 1st term; Wed., at 11.....Associate Professor O'Neill.

5. **Mineralogy.** (Applied Science 142.)
2 hrs.; Tu. and Th., at 9.....Professor Graham.

6. **Determinative Mineralogy.** (Applied Science 143.)
2 lab. periods. of 3 hrs. each during the first term.....
Professor Graham.

7. **Economic Geology.** (Applied Science 148, in part.)
1 hr., 1st term; Th., at 11.....Associate Professor O'Neill.

8. **Ore Deposits.** (Applied Science 148, in part.)
4 hrs., 2nd term.....Associate Professor O'Neill.

9. **Optical Mineralogy and Crystallography.** (Applied Science 151.)
1 hr. and 3 hrs. lab. period, 1st or 2nd term.
Hours to be arranged.....Professor Graham.

10. **Petrography.** (Applied Science 146 and 147.)
1 hr., 1st term; 1 lab. period (3 hrs.), sess.....
Professor Graham and Associate Professor O'Neill.

11. **Advanced Petrography.**
Laboratory work—all hours to be arranged.....
Professor Graham and Associate Professor O'Neill.

12. **Palæontology.**
2 hrs.; 3 hrs. lab. All hours to be arranged.....
Associate Professor Clark.

13. **Geological Colloquium.**
One hour per week (to be arranged).

HONOUR COURSE

Second Year:—Geology 1, 5 and 6; Zoology 1; Botany 1; Chemistry 1; English 4.

Third Year:—Geology 2, 3, 4, 9, 10; Chemistry 3.

Fourth Year:—Geology 7, 8, 11, 12, 13; Botany 3 and Zoology 7.

GRADUATE COURSE

See page 471.

DEPARTMENT OF GERMANIC LANGUAGES

PROFESSOR:—H. WALTER.

ASSISTANT PROFESSOR:—W. L. GRAFF.

LECTURER:—MISS B. MEYER.

1. **German Language.** (Beginners' B.A. Course.)
3 hrs.; Tu., Th., Sat., at 9.....
Prof. Walter, Assistant Prof. Graff, Miss Meyer.

Texts:—Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.); Guerber, Märchen and Erzählungen, Vol. I (Heath); Nichols, Easy German Reader (Holt).

Students intending to proceed to Course 7 are required to study during the summer the following texts:—Hauff, Der Zwerg Nase (Heath); Moser, Der Bibliothekar (Heath); Schrakamp, Ernstes und Heiteres (A.B. Co.); Carrington & Holzwarth, German Composition (Heath).

2. **German Language.**
3 hrs.; Tu., Th., Sat., at 10.....Miss Meyer

Texts:—Van der Smissen und Fraser, High School German Grammar (Copp, Clark Co.), Hauff, Die Karavane (Holt); Keller, Kleider machen Leute (Heath); Fulda, Talisman (Holt); Collmann, Easy German Poetry (Ginn, Ed. 1913); Horning, German Composition (Copp, Clark Co.).

Private Readings:—
Baumbach, Waldnovellen (Heath); Riehl, Burg Neideck (Am. B. Co.).

3. **German.** (Beginners' B.Sc. Course.)
3 hrs.; Tu., Th., Sat., at 10.....Assistant Professor Graff.

Texts:—Vos, Essentials of German (Holt); Guerber's Märchen und Erzählungen, Vol I (Heath); Gore's German Science Reader (Heath).

4. **German Science Reading Course.** Second Year.
3 hrs.; Mon., Wed., Fri., at 5.....Assistant Professor Graff.

A course in reading Science German is given for students who have matriculated in this language or have taken it in the First Year.

Texts:—Greenfield's Technical and Scientific German (Heath); Ihrig's Word Formation and Syntax (Heath).

5. **German Language.** Second Year.
Section A; 3 hrs.; Mon., Wed., Fri., at 11.....
Professor Walter and Miss Meyer.

Texts:—Van der Smissen, German Grammar; Harris, German Composition (Heath); Storm, Immensee (Ginn); Sheffel, Ekkehard (Heath); Schiller, Wilhelm Tell (Holt).

Private Readings:—
Riehl, Der Fluch der Schönheit (Heath); Mörike, Mozart auf der Reise nach Prag (Heath).

Section B; 3 hrs.; Mon., Wed., Fri., at 10.....
Professor Walter and Miss Meyer.

Texts:—Van der Smissen, German Grammar; Harris, German Composition (Heath); Sudermann, Der Katzensteg (Heath); Freytag, Die Journalisten (Ginn); Schiller, Maria Stuart.

6. **German Language, Commerce Course.** (Will not be offered in 1928-29.) Students will receive one hour's instruction in Commercial German and will take two hours in course 5.

Longman's German Commercial Correspondence (Longmans, Green & Co.).

7. **German Language.** Second Year. Honour Course.
3 hrs.; Mon., Wed., Fri., at 12.....Assistant Professor Graff.

Texts:—Jagemann, Materials for German Prose Composition (Holt); Goethe, Egmont (Holt); Schiller, Piccolomini; Meyer, Jürg Jenatsch (Heath); Nichols, Modern German Prose (Holt).

Private Readnigs:—
Heine, Harzreise (Ginn); Goethe, Sesenheim (Holt).

No student who in his First Year took German 1 can take course 7 unless he has completed the summer work as given under course 1.

Students may begin Honours in German in their Third Year, provided they have obtained a First Class in either 5A or 5B.

Honour students in German are strongly recommended to take, in their Second or Third Year, as one of their general courses, course 1 of the Department of Philosophy (Logic and Introduction to Philosophy).

N.B.—In order to be admitted to the following courses of the Third and Fourth Years a student must know German well enough to understand lectures delivered in German and express himself in German with some degree of fluency and correctness.

8. **German Literature (Nineteenth Century).**
3 hrs.; Mon., Wed., Fri., at 9 (given in 1928-29)..Professor Walter.

Texts:—Kleist, Prinz Friedrich von Homburg (Ginn); Grillparzer, Sappho (Ginn); Hebbel, Agnes Bernauer; Heine, Prose (Oxford Univ. Press); Heine, Verse; Hauptmann, Die versunkene Glocke; Keller, Sieben Legenden; History of Literature, Nineteenth Century (Kluge); Mueller, German Composition (Copp, Clark Co.); selections from German philosophers.

9. **German Literature (Eighteenth Century).**
3 hrs.; Mon., Wed., Fri. (given in 1929-30)....Professor Walter.

Texts:—Lessing, Emilia Galotti (Ginn); Goethe, Iphigenie (Pitt Press); Schiller, Wallenstein; Lessing, Hamburgische Dramaturgie; Kluge, Geschichte der deutschen Literatur; Mueller, German Composition (Copp, Clark Co.); Selections from German philosophers.

Honour Courses

10. **Mediæval German Literature and Philology.**
(Given in 1928-29)
1 hr.; Mon. at 4.....Assistant Professor Graff.

Texts:—Bachmann, Mittelhochdeutsches Lesebuch (Fæsi und Beer, Züruch); Behaghel, Die Deutsche Sprache (Freytag, Leipzig).

11. **Entwicklung der deutschen Lyrik**.....Professor Walter.
1 hr. (Given in 1928-29.)

12. **Geschichte des deutschen Trauerspiels**.....Professor Walter.
2 hrs. (Given in 1929-30.)

13. **Der deutsche Roman in seinen Hauptvertretern.**
1 hr. (Given in 1928-29.).....Assistant Professor Graff.

14. **Composition**.....Professor Walter.
1 hr.
Mutschmann, Passages for translation into German (Oxford Univ. Press).

15. **Gothic and Introduction to Germanic Philology.**
1 hr. .....Professor Latham.

The German language alone is used in class instruction in courses 5-13, and, in order to obtain honours, candidates must be able to speak German fluently.

GRADUATE COURSES

See page 472.

DEPARTMENT OF HISTORY

PROFESSORS:—W. T. WAUGH. C. E. FRYER.

ASSOCIATE PROFESSOR:—E. R. ADAIR.

READER:—T. W. L. MACDERMOT.

ASSISTANTS:—A. D. P. HEENEY. BEATRICE M. T. LYMAN. JOAN M. V. FOSTER.

COURSES FOR GENERAL COURSE STUDENTS

1. **General History of Europe, from the Break-up of the Roman Empire to the Present Day.** First Year.
3 hrs.; Tu., Th., Sat., at 11..... Professor Waugh.

2. **General History of North and South America.** Second Year.
3 hrs.; Mon., Wed., Fri., at 9.....Associate Professor Adair.

3. **History of Canada.** Third Year.
3 hrs.; Tu., Th., Sat., at 9.....Professor Fryer.

4. **History of Europe, 1789-1914.** Fourth Year.
3 hrs.; Tu., Th., Sat., at 10.....Professor Fryer.

COURSES SPECIALLY FOR HONOUR STUDENTS

Prerequisite:—History 1.

5. **Mediæval History and Institutions.** Second Year.
3 hrs.; Tu., Th., Sat., at 10.....Professor Waugh.

6. **History of Modern Europe to 1789.** Third Year.
3 hrs.; Mon., Wed., Fri., at 12.....Associate Professor Adair.

7. **English Constitutional History.** Fourth Year.
3 hrs.; Tu., Th., Sat., at 9.....Professor Waugh.

8. **History of Economic and Social Conditions, with special reference to England.** Fourth Year.
3 hrs.; at times to be arranged.....Associate Professor Adair.

Special Subjects:—

Joan of Arc and her Times.

The Reign of Charles I.

William Pitt and the Conquest of Canada.

Industrial Democracy in England.

A selected period of the History of Canada since 1760.

Roman Law.

A Period or Aspect of Ancient History.

NOTE.—A choice of one of these special subjects for continuous study by Honour students during their Third and Fourth Years will be made in consultation with the Chairman of the Department.

Students taking Honours in History will take the following courses in 1928-29:—

Second Year: History 2 and 5.
Economics 3.
Approved courses in French *or* German *and* in Latin *or* German.

Third Year: History 3 and 6.
An approved course in Economics, Latin, French *or* German. One of the special subjects in History.

Fourth Year: History 4, 7 and 8.
Continuation of special subject begun in 1927-28

Students taking Honours in History and another subject will take the following courses in History in 1928-29:—

History Courses:—

Second Year: History 2 and 5.
Third Year: History 3 and 6.
Fourth Year: History 7 and *either* 4 *or* 8.

NOTE.—In addition to the examinations on the subjects taken up in the last year, Fourth Year honour students will have a general examination paper on the history studied by them in their four years.

GRADUATE COURSE

See page 473.

DEPARTMENT OF MATHEMATICS

PROFESSORS:— D. A. MURRAY (*Chairman*). C. T. SULLIVAN.

ASSOCIATE PROFESSORS:— A. H. S. GILLSON. W. L. G. WILLIAMS.

ASSISTANT PROFESSORS:— T. H. MATTHEWS. H. TATE.

1. **Mathematics.** (For First Year students.)
Geometry and Trigonometry, 3 hrs., 1st term.
Algebra, 3 hrs., 2nd term.
Five Sections: Messrs. Gillson (two sections), Matthews (two sections), Murray.

Shortly after the beginning of the session a section will be formed of the more advanced students in Mathematics. About mid-year the sections will be rearranged and a section formed of the students who have obtained good class standing in the Mathematics of the first part of the session. The Advanced section will be in charge of Assistant Professor Matthews.

Text-books:—Hall and Knight, Elementary Trigonometry; Carslaw, Plane Trigonometry; Hall and Stevens, School Geometry, Parts I-VI; Hall's School Algebra, Parts I, II; Bottomley, Logarithmic Tables.

1A. Solid Geometry and Trigonometry.

1 hr., 2nd term.....Assistant Professor Matthews.

This is a special class for students qualifying for entrance into Applied Science and for others interested.

1B. Practical Mathematics.

This is an elementary course giving simple methods of dealing with numerical data arising in Biology, Economics, Sociology and allied subjects, and including such topics as the use of graphical methods, tables, averages, approximations and elementary statistics.

1 hr. weekly (time to be arranged).....
Assistant Professor Matthews.

A knowledge of the subject matter of course 1 is a prerequisite to course 2 or 3.

2. **Algebra and Analytical Geometry.** (For Second Year and other qualified students.)

3 hrs.; Mon., Wed., Fri., at 10.....Assistant Professor Matthews.

Text-books:—S. L. Loney, Co-ordinate Geometry; C. E. Love, Analytic Geometry.

3. **Calculus.** (An elementary course for Second Year and other qualified students.)

3 hrs.; Tu., Th., Sat., at 12.....Professor Murray.

Text-book:—Murray, Differential and Integral Calculus.

A knowledge of courses 2 and 3 is a prerequisite for courses 5, 6, 7.

Students who do not intend to enter an Honour course in Mathematics or in Mathematics and Physics and who wish to take classes in Mathematics after the First Year are advised as follows:—Mathematics 2, 3 may be taken in the same year or in different years in any order. After Mathematics 2, 3 shall have been passed, any of Mathematics 5, 6, 7 may be taken and in any order.

Students in Arts who wish to prepare themselves for advanced courses in Mathematics or for advanced courses in Physics or for work in actuarial science (see courses 7, 9, below), are strongly advised to take both courses 2 and 3 in their Second Year.

Students who enter the Honour course in Mathematics in their Third Year are required to have taken in their Second Year Mathematics 2, 3, and either Mathematics 4 and Physics 4, or Mathematics 2 of Commerce.

Students who enter the Honour course in Mathematics and Physics in the Third Year are required to have taken in their Second Year Mathematics 2, 3, 4 and Physics 3, 4.

4. **Spherical Trigonometry and Astronomy.** (For Second Year and other qualified students.)

Spherical Trigonometry; 1 hr., 1st term.....
Assistant Professor Matthews.

Astronomy; 2 hrs., 2nd term.....Associate Professor Gillson.

Text-books:—Murray, Spherical Trigonometry; Barlow and Bryan, Astronomy (London University Tutorial Press); Moulton's Astronomy.

Spherical Trigonometry may be taken separately from Astronomy by students taking the double course in Arts and Applied Science.

This course can be combined with Physics 4 to form a three-hour course for the year.

5. **Analytical Geometry of Three Dimensions; Curve Tracing.** (For Third Year and other qualified students.)

3 hrs. sess. .....Assistant Professor Matthews.

Text-books:—C. Smith's Solid Geometry; R. T. J. Bell, Geometry of Three Dimensions.

6. **Infinitesimal Calculus and Differential Equations.** (For Third Year and other qualified students.)

3 hrs. sess. .....Associate Professor Gillson.

Text-book:—Lamb, Infinitesimal Calculus; Forsyth, Differential Equations (Macmillan); Piaggio, Differential Equations (Bell).

7. **Theory of Equations and Finite Differences.** (For Third Year and other qualified students.)

3 hrs. sess. .....Professor Sullivan.

Text-books:—Burnside and Panton, Theory of Equations; A. Henry, Calculus and Probabilities; Whittaker and Robinson, Calculus of Observations.

9. **Theory of Interest and Life Contingencies.** (For Fourth Year and other qualified students.)

3 hrs. sess. .....Assistant Professor Tate.

Course 7 is a prerequisite to course 9.

Text-books:—Spurgeon, Institute of Actuaries' Text-book; Borel, Probability; King's Theory of Interest.

Courses 7 and 9 are mainly planned for students who intend to enter on actuarial work, and are designed as an aid to those who may proceed later to the examinations of the Institute of Actuaries.

10. **Introduction to the Theory of Functions of a Real Variable.** (For Fourth Year and other qualified students.)

3 hrs. sess. .....Associate Professor Williams.

Text-books:—Hardy, Course in Pure Mathematics (Camb. Univ. Press); de la Vallée Poussin, Cours d'Analyse Infinitésimale.

11. **Introduction to the Theory of Functions of a Complex Variable.** (For Fourth Year and other qualified students.)

3 hrs. sess. .....Professor Sullivan.

Text-books:—MacRobert, Functions of a Complex Variable; Whittaker and Watson, Modern Analysis; Appell and Lacour, Fonctions Elliptiques (Gauthier-Villars).

12. **Modern Higher Algebra.** (For Fourth Year and other qualified students).

3 hrs. sess. .....Associate Professor Williams.

Properties of polynomials; matrices; algebraic invariants, etc.

Text-book:—Bôcher, Introduction to Modern Higher Algebra.

Each year courses 5, 6, 10, 11 will be given, and those of the remaining courses will be given for which a sufficient number of students present themselves.

For Courses in Commerce open to students in Arts, see Announcement of the School of Commerce.

Honour Course in Mathematics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2; Mathematics 2, 3, and either Mathematics 4 and Physics 4, or Mathematics 2 of Commerce.

Third Year:—Courses 5, 6, 7, and a fourth full course (in any subject) approved by the department.

Fourth Year:—Course 10 and at least two of courses 9, 11, 12, and a fourth full course (in any subject) approved by the department.

Honour Course in Mathematics and Physics

Prerequisite:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 2, 3, 4; Physics 3, 4. (Chemistry and English recommended as other subjects to be chosen.)

Third Year:—Mathematics 5, 6; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8.

Graduate Courses in Mathematics

See page 474.

DEPARTMENT OF MUSIC AND THE FINE ARTS

PROFESSOR:—H. C. PERRIN.

LECTURERS:—Miss C. LICHTENSTEIN. A. E. WHITEHEAD. W. CARLESS.

GENERAL COURSES

1. **The Fine Arts.** First Year.
   (a) The plastic arts, history and criticism.
   1 hr.....Assistant Professor Carless.
   (b) Music, history and criticism.
   1 hr.....Professor H. C. Perrin.
   *(c) Practical music or practical drawing.
   1 hr.....

N.B.—Course 1 is a prerequisite to the other courses in the Department.

2. **The History and Practice of Music.** Second Year.
   (a) History from 1650-1850.
   1 hr.....Miss C. Lichtenstein.
   (b) Musical dictation and ear training, sound, rhythm, musical perception, the use of instruments, etc.
   1 hr.....Dr. A. E. Whitehead.
   *(c) Practical Music continued, as in First Year.
   1 hr.....

3. **The History and Theory of Music.** Third Year.
   (a) History from the earliest times to the present.
   1 hr.....Miss C. Lichtenstein.
   (b) The theory of music, melody and harmony, musical analysis and synthesis.
   1 hr.....Dr. A. E. Whitehead.
   *(c) Practical Music continued, as in First and Second Years.
   1 hr.....

4. **The History and Theory of Music.** Fourth Year.
   (a) A more advanced and complete study of this subject.
   2 hrs.....Dr. A. E. Whitehead.
   *(b) Practical Music, as in former years.
   1 hr.....

* For this portion of the course an extra fee will be charged if the work is taken within the University. The necessary instruction can, however, be given by approved teachers outside.

Honour Courses

1. **Introductory Psychology.** Second Year.
   As given in the Department of Psychology.
   3 hrs. sess.....Dr. W. D. Tait.

2. **Comparative Music and Psychological Interpretations.** Third and Fourth Years.
   (a) A study of comparative music in periods, nationalities, etc., as, for example, the polyphonic, vocal, classical or romantic periods.
   2 hrs.....Dr. H. C. Perrin.
   (b) The Psychology of Music.
   1 hr.....Dr. C. E. Kellogg.

3. **Aesthetics.** As in the Department of Psychology. Third and Fourth Years.
   3 hrs. sess.....Dr. C. E. Kellogg.

4. **Seminar.** Open to graduates and all other qualified advanced students. An intensive study of a special period in Music.
   3 hrs.....Dr. H. C. Perrin.

DEPARTMENT OF ORIENTAL (Semitic) LANGUAGES

PROFESSORS:— C. A. BRODIE BROCKWELL.
A. R. GORDON.

ASSISTANT PROFESSOR:—G. ABBOTT-SMITH.

LECTURER IN SEMITIC LANGUAGES:—JULIUS BERGER.

1. **Hebrew Grammar and Syntax.**
   3 hrs.; Mon., Wed., Fri., at 12.....Professor Brockwell.

2. **Hebrew Grammar and Syntax.**
   1 hr.; Th., at 12.....Professor Brockwell.

3. **Arabic and Aramaic.**
   3 hrs.; Mon., Wed., Fri., at 10.....Professor Brockwell.

4. **Semitic Social Anthropology and Epigraphy.**
   3 hrs.; Mon., Wed., Fri., at 11.....Professor Brockwell.

5. **Hebrew Texts.**
   3 hrs.; Mon., Wed., Fri., at 9.....Professor A. R. Gordon.

6. **Outlines of Hebrew History to Herod the Great.**
   1 hr.; Tu., at 2.....Professor A. R. Gordon.

7. **Hebrew History and Literature from Herod the Great to the Redaction of the Talmud.**
   3 hrs.; Mon., Wed., Fri., at 12.....Mr. Berger.

8. **Post-Biblical Hebrew Texts.**
   2 hrs.; Tu., Th., at 10.....Mr. Berger.

9. **Literature of the Jewish Hellenists (Selected Greek Texts).**
   3 hrs.; Mon., Wed., Fri., at 2...Assistant Professor Abbot-Smith.

10. **Grammar and Syntax of Jewish Hellenistic Texts.**
    1 hr.; Tu., at 12.....Assistant Professor Abbott-Smith.

HONOUR COURSE

Prerequisite:—Hebrew 1 or an equivalent.
Second Year:—Consult the Head of the Department.
Third Year:—3, 4, 5, 7 (or 9).
Fourth Year:—3, 4, 5, 8 and 6 (or 9).

COURSE FOR THE M.A. DEGREE

See page 478.

DEPARTMENT OF PHILOSOPHY

PROFESSORS:— W. CALDWELL. IRA A. MACKAY.

ASSISTANT:— ————————.

1. **Logic and Introduction to Philosophy.**
   3 hrs.; Tu., Th., Sat., at 10.....Professor MacKay.
2. **Moral Philosophy.**
   3 hrs.; Mon., Wed., Fri., at 12.....Professor Caldwell.
3. **Greek Philosophy.**
   3 hrs.....Professor Caldwell.
4. **History of Modern Philosophy.**
   3 hrs.; Mon., Wed., Fri., at 4.....Professor Caldwell.
5. **Advanced Moral Philosophy.**
   3 hrs.....Professor Caldwell.
6. **Theory of Knowledge and Metaphysics.**
   2 hrs.....Professor MacKay.
7. **Main Currents of Recent Philosophy.**
   3 hrs.....Professor Caldwell.
8. **The Critical Philosophy of Kant.**
   Lectures, Reading and Papers.
   2 hrs.....Professor Caldwell or Professor MacKay.

HONOUR COURSE

Second Year:—Course 1 and Psychology 1.

Third Year:—Any four full courses from 2 to 8, of which course 2 must be one. Another course in Psychology may also be prescribed either in this year or the next.

Fourth Year:—Four full courses from 2 to 8 other than those selected in the Third Year. In addition, a full course in any of the following subjects:—Education, History, Psychology, Sociology or English Literature.

The Philosophy requirements for Honours in Philosophy and English, Philosophy and German, and Philosophy and Psychology are six hours selected from 2 to 8 in each of the Third and Fourth Years.

GRADUATE COURSE FOR M.A. DEGREE

See page 481.

DEPARTMENT OF PHYSICS

DIRECTOR:—A. S. EVE.

PROFESSORS:—H. T. BARNES. L. V. KING. A. N. SHAW.

ASSOCIATE PROFESSORS:—A. H. S. GILLSON. D. A. KEYS. H. E. REILLEY.

ASSISTANT PROFESSORS:—E. S. BIELER. J. S. FOSTER.

LECTURER IN ASTRO-PHYSICS:—A. V. DOUGLAS.

DEMONSTRATORS:—N. CAM. T. N. WHITE. H. G. I. WATSON. A. L. PATTERSON. J. K. L. MACDONALD. J. M. YOUNG. F. T. DAVIES. H. W. HARKNESS.

INSTRUCTOR IN LABORATORY TECHNIQUE:—MR. H. T. PYE.

1. **General Course.**

(Applied Science 44, Lab. 45).

2 hrs.; Wed. and Fri., at 2; lab., Mon., 2-4, or Tu., 4-6, or 4-6 Wed.

Associate Professor Keys.

Text-books:—Kimball's College Physics (Holt); Laboratory Manuscripts (Renouf Publishing Co.).

2P. **General Course** (Advanced). Open to Second Year pre-medical and dental students; also available for other Arts students (Physics 1 or equivalent, prerequisite).

2 hrs.; Tu., Th., at 3; 2 hrs. lab., Tu., 4-6.

Associate Professor Reilley.

Text-books:—Duff's Text-book on Physics (Blakiston); Laboratory Manuscripts (Renouf Publishing Co.). *Reference books:*—Daniel's Text-book on Medical Physics (Macmillan); Jones, Electricity and Magnetism (Lewis).

2. Heat, Sound and Light. (Applied Science 311, Lab. 312.)
3 hrs.; Tu., Th., Sat., at 11; 2 hrs. lab., Mon. or Fri., 11-1, or Wed., 2-4.....Professor Shaw.

Text-books:—Duncan and Starling's Heat, Light and Sound (Macmillan); Laboratory Manuscripts (Renouf Publishing Co.).

3A. Electricity and Magnetism. (Applied Science 315, Lab. 316.)
2 hrs.; Mon., Fri., at 11; 2 hrs. lab., Fri., 2-4, or Sat., 10-12.
Professor Eve.

Text-books:—Duncan and Starling's Electricity and Magnetism (Macmillan); Laboratory Manuscripts (Renouf Publishing Co.).

3B. Statics and Hydrostatics.
1 hr.; Wed., at 11.....Assistant Professor Foster.
Text-book:—Loney's Statics and Dynamics (C.U.P.).

4. Dynamics.
2 hrs., 1st term; 1 hr., 2nd term. (A half course combined with Mathematics 4 to form a three-hour unit.); Tu., Th., Sat., at 9.
Text-book:—Loney's Statics and Dynamics (C.U.P.).
Professor Eve.

5A. Properties of Matter.
1 hr.; Sat., at 10 (3 hrs. lab.).....Assistant Professor Foster.
Text-book:—Poynting and Thomson's Properties of Matter (Griffin).

5B. Statics, Dynamics of a Particle and Rigid Dynamics.
2 hrs.; Tu., Th., at 10.....Assistant Professor Bieler.
Text-books:—Lamb's Statics and Lamb's Dynamics (C.U.P.).

6A. Electrical Measurements.
2 hrs.; Wed., Fri., at 9; 4 hrs. lab., Wed., 2-6.
Assistant Professor Bieler.

Text-books:—Terry's Advanced Laboratory Practice in Electricity and Magnetism (McGraw Hill); Starling's Electricity and Magnetism (Longmans).

6B. Light. (Replaced by 8B in alternate sessions.*)
1 hr.; Mon., at 9 (lab. Monday, 2-5).
Associate Professor Keys and Dr. A. V. Douglas.

Text-books:—Edser's Light (Macmillan); Wood's Physical Optics (Macmillan).

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* Courses 6B and 8B will be given in alternate sessions as follows:—6B in '28-'29, '30-'31, etc., and 8B in '29-'30, '31-'32, etc.

6C. Electricity. (Applied Science 318.)
Mainly for Electrical Engineering Students in Applied Science and students in the course in Engineering Physics.
2 hrs., 2nd term; Tu., Th., at 9-10.
Assistant Professor Bieler.

7A. Electromagnetic Theory.
1 hr.; Th., at 11.....Associate Professor Keys.
Text-book:—Pierce's Electric Oscillation and Electric Waves (McGraw Hill).

7B. Mathematical Physics.†
2 hrs.; Tu., Sat., at 11.....Assistant Professor Foster.
Text-book:—Houston's Introduction to Mathematical Physics (Longmans).

8A. Molecular Physics.
2 hrs.; Wed., Fri., at 10-11.....Professor Shaw.
Text-book:—Crowther's Ions, Electrons and Ionizing Radiation (E. Arnold).

8B. Theory of Heat. (Replaced by 6B in alternate sessions.*)
1 hr.; Mon. at 9 (lab.,‡ Monday, 2-5).
Professor Shaw and Dr. A. V. Douglas.
Text-book:—Preston's Theory of Heat (Macmillan).

9. Radioactivity.
2 hrs.; 2nd term (3 hrs. lab.).....Assistant Professor Bieler.
Text-book:—Rutherford's Radioactive Transformation (C.U.P.).

10. Vector Analysis.
2 hrs.; 1st term.....Professor Eve.
Text-book:—Coffin's Vector Analysis (Wiley).

11. Advanced Statics, Dynamics, Hydrodynamics and Sound.
2 hrs.....Professor King.
Text-books:—Lamb's Higher Mechanics (C.U.P.); Basset's Hydrodynamics and Sound (Deighton Bell).

12. Kinetic Theory of Matter.
2 hrs.....Professor King.
Text-books:—Jean's Dynamical Theory of Gases (C.U.P.); Bloch's The Kinetic Theory of Gases.

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* Courses 6B and 8B will be given in alternate sessions as follows:—6B in '28-'29, '30-'31, etc., and 8B in '29-'30, '31-'32, etc.
† Competent students may substitute 14.
‡ The department of Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratories.

13. **(a) Quantum Theory.**
1 hr.; Th., at 12.....Professor Eve.
Text-book:—Summerfeld's "Atomic Structure" (Methuen).

(b) Relativity.
1 hr.; 2nd term.....Associate Professor Gillson.

14. **Advanced Electricity and Magnetism.**
2 hrs.....Professor King.
Text-book:—Jeans' Electricity and Magnetism (C.U.P.).

15. **Laboratory Practice and Physical Manipulation.**
A course of practical instruction on the use of tools (including the lathe), glass-blowing, photography and the construction of simple apparatus. This course is designed as an aid and introduction to original research.
1 hr. (also 2 hrs. lab.).....
Associate Professor Keys and Mr. H. T. Pye.

16. **Thermodynamics.**
1 hr.....Professor Shaw.
(Alternate sessions, 1928-29, 1930-31, etc.).

17. **Electron Theory.**
2 hrs.....Professor King.
Text-books:—Richardson's Electron Theory of Matter (C.U.P.): Lorentz, Theory of Electrons (Teubner).

18. **Spherical Astronomy and Combination of Observation.**
3 hrs.....Associate Professor Gillson.
Text-books:—Ball's Spherical Astronomy; Newcomb's Spherical Astronomy (Math. 3 and 4 prerequisite).

19. **Astrophysics.**
3 hrs.....Dr. A. V. Douglas.
(Mathematics 4 and 6, and Physics 5B prerequisite).

Students who have received instruction in Astronomy may apply to proceed to the Dominion Observatory at Ottawa for work in the summer months.

Honour Course in Mathematics and Physics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2. First Year Students intending to take these Honour Courses are advised to take Physics 2 and the advanced section of Mathematics 1.

Second Year:—Mathematics 2, 3, 4; Physics, 3, 4; (Chemistry and English recommended as other subjects to be chosen).

Third Year:—Mathematics 5, 6; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8.

Third and Fourth Year Honour Students are invited to attend the Journal Club, Colloquium and Physical Society.

GRADUATE COURSE IN PHYSICS

See page 482.

DEPARTMENT OF PSYCHOLOGY

PROFESSOR AND DIRECTOR OF THE PSYCHOLOGICAL LABORATORY:—
WILLIAM D. TAIT.

ASSOCIATE PROFESSORS:— CHESTER E. KELLOGG. J. W. BRIDGES.

DEMONSTRATOR:—DESMOND SMYTH.

FOR UNDERGRADUATES

1. **Introduction to Psychology.** Second Year.
   Lectures and experiments.
   3 hrs.; Mon., Wed., at 10, and one laboratory period to be arranged.
   Professor Tait and Mr. Smyth.

2. **General Psychology.** Third and Fourth Years.
   Lectures, readings and experiments.
   3 hrs.; Mon., Wed., Fri., at 12.....Associate Professor Kellogg.

3. **Experimental Psychology.**
   Laboratory course; readings, experiments and discussions.
   3 hrs.; Mon., Wed., Fri., at 2; 2 hrs. laboratory and one lecture or conference per week.....
   Associate Professor Kellogg and Mr. Smyth.

FOR UNDERGRADUATES AND GRADUATES

4. **Physiological Psychology.** Third and Fourth Years.
   Lectures and reports.
   3 hrs., 2nd term; (to be arranged).

5. **Comparative Psychology.** Third and Fourth Years.
Lectures, reading and reports (half course).
3 hrs., 2nd term; Mon., Wed., and Fri., at 10.....
Associate Professor Kellogg.
(Given in 1929-30.)

6. **Child Psychology.** Third and Fourth Years.
Lectures, readings and reports (half course).
3 hrs., 1st term; Tu., Th., Sat., at 10.....Professor Tait
(Given in 1929-30.)

7. **Social Psychology.** Third and Fourth Years.
Lectures, readings and reports.
3 hrs.; Tu., Th., Sat., at 10.....Professor Tait.
(Given in 1928-29.)

8. **Aesthetics.** Third and Fourth Years.
Lectures, readings and reports.
3 hrs.; Tu., Th., Sat., at 9.....Associate Professor Kellogg.
(Given in 1929-30.)

9. **Educational Psychology.** Third and Fourth Years.
Lectures, readings and reports.
3 hrs.; Tu., Th., Sat., at 11.....Associate Professor Kellogg.
(Given in 1928-29.)

10. **Experimental Education.** (Half Course.) Third and Fourth Years.
Lectures, reports, experiments.
3 hrs., 2nd term; Tu., Th., Sat., at 11.....Professor Tait.
(Given in 1928-29.)

11. **Mental Measurements.** Third and Fourth Years.
Lectures, experiments, reports (half course).
3 hrs., 2nd term; Tu., Th., Sat., at 10.....Professor Tait.
(Given in 1929-30.)

12. **Statistical Methods.** Third and Fourth Years.
Training in selection and use of statistical methods in psychology and education. Not a mathematical course.
3 hrs., 1st term; Mon., Wed. and Fri., at 10.....
Associate Professor Kellogg.
(Given in 1929-30.)

13. **Psychology of Elementary School Subjects.**
3 hrs., 1st term; Mon., Wed., Fri., at 10.....
Associate Professor Kellogg.
(Given in 1928-29.)

14. **Psychology of Secondary Education.**
3 hrs., 2nd term; Mon., Wed., Fri., at 10.....
Associate Professor Kellogg.
(Given in 1928-29.)

15. **Vocational and Industrial Psychology.** Third and Fourth Years.
Lectures, readings and reports (half course).
3 hrs., 2nd term; Tu., Th., Sat., at 11.....Professor Tait.
(Given in 1929-30.)

16. **History of Modern Psychology.** Third and Fourth Years.
Lectures, readings and reports (half course).
3 hrs., 1st term; hours to be arranged..Associate Professor Kellogg.
(Given in 1928-29.)

Honour Course

Second Year:—1 and Philosophy 1.

Third Year:—Any four full courses 2-14.

Fourth Year—Any four full courses 2-14 other than those selected in the Third Year. Students taking Honours in Psychology must also take History of Philosophy in the Third or Fourth Year in place of one of courses 2-14. In consultation with the department, allied courses in other departments may be taken instead of certain courses in Psychology. Students are advised to take Greek Philosophy. A knowledge of German is advantageous.

The requirements for honours in Psychology and other subjects are two courses in Psychology and two in the other subject selected.

Students are advised to take Systematic Physiology in the Medical School before Psychology 4.

Graduate Course

See page 486.

School Service Bureau

The Department of Psychology maintains a School Service Bureau. Its purpose is to furnish aid and advice with regard to intelligence tests, classification of pupils, vocational guidance, remedial treatment, standarized tests and measurements and other psychological aspects of education.

As far as time and equipment permit, this service is at the disposal of superintendents, principals, teachers, parents and others interested in education.

DEPARTMENT OF ROMANCE LANGUAGES

Professor:—R. du Roure.

Associate Professor:—P. Villard.

Assistant Professors:—R. Messac. Mrs. Touren Furness.

Lecturers:—L. d'Hauteserve. Mme. Durand-Joly.

FRENCH

Owing to the position which this University occupies in the midst of a very large French-speaking population, the Department enjoys the opportunities afforded by French church services, French newspapers, French theatres, French literary clubs and public lecture courses in the French language. It maintains in consequence a particularly high standard in the study of French. Every lecture, even in the First Year, is given in French, and the complete course of studies is so combined as to give the students not only a theoretical knowledge of French grammar and literature, but a practical ability to talk, read and write French correctly and fluently.

Both oral and written examinations are held on each year's work.

The oral examination (in both General and Honour courses) counts for 50%.

1. **French Language.** First Year.

   3 hrs.—Section A, Mon., Wed., Fri., at 9; Section B, Mon., Wed., Fri., at 11.....Professor du Roure, Associate Professor Villard, Assistant Professors Messac, Furness and Mme. Durand-Joly and M. d'Hauteserve.

Texts:—(a) General Course.—Green and Fort, French Composition (Oxford); Lavisse, Histoire de France, Cours moyen; Labiche, Le Voyage de M. Perrichon (Holt); Manley, Eight French Stories (Allyn and Bacon); A. Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford). (b) Advanced Course.—Daudet, Morceaux choisis (Ginn); Racine, Andromaque (Ginn); Mérimée, Contes et Nouvelles (Oxford); Molière, Le Bourgeois Gentilhomme (Holt); Cameron, French Composition (Holt).

2. **French Language and Literature.** Second Year.

3 hrs.—Section A, Tu., Th., Sat., at 9; Section B, Tu., Th., Sat., at 11....Assistant Professors Messac and Furness, and Mme. Durand-Joly, and M. d'Hauteserve.

Texts:—Des Granges, Morceaux choisis, Classes de Lettres (Hatier); Molière, Les précieuses ridicules (Heath); Augier, Le Gendre de M. Poirier (Heath); Daniel Mornet, Histoire de la litérature et de la pensée françaises (Larousse); Mérimée, Colomba (Heath); Spiers, Graduated Course of Translation (Simpkin, Marshall and Co.).

3. **French Language.** Second Year. (Honour Course.)

3 hrs.; Tu., Th., Sat., at 11.....
Professor du Roure, Mme. Durand-Joly.

Texts:—Corneille, Le Cid (Holt); La Bruyère, Caractères; Molière, Les Femmes savantes (Macmillan); Musset, Trois Comédies (Heath); Hugo, Ruy Blas (Holt); P. Hervieu, La Course du Flambeau (Heath); Pailleron, Le Monde où l'on s'ennuie (Heath); French Lyrics of the Nineteenth Century (Heath); Bowler, Stories by Contemporary French Novelists (Ginn); Louis Hémon, Maria Chapdelaine.

4. **French Literature of the XVIIth and XVIIIth Centuries.** Third Year.

3 hrs.; Mon., Wed., Fri., at 10.....Asst. Professor Messac and Mme. Durand-Joly.

Texts:—Des Granges, Morceaux choisis, Classes de Lettres (Hatier); Corneille, Polyeucte; Racine, Phèdre; Molière, Le Misanthrope; Daniel Mornet, Histoire de la litérature et da la pensée françaises; Lesage, Gil Blas (Heath); Marivaux, Le Jeu de l'Amour et du Hasard (Macmillan); Voltaire, Selections (The Century Co.); Beaumarchais, Le Barbier de Séville (Ginn).

In addition to the above texts, a certain number of Home Readings will be assigned.

Prose Composition:—(a) General Course.—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall & Co., London). (b) Honour Course.—Stephen Leacock, My Discovery of England.

5A. La France Moderne: Institutions politiques et sociales; politique intérieure et extérieure. Third and Fourth Years.
3 hrs., 1st term; Mon., Wed., Fri., at 10....Professor du Roure.
Texts:—Lanson et Desseignet, La France et sa civilization (Holt).

5B. La France Moderne: Le mouvement des idées. Third and Fourth Years.
3 hrs., 2nd term; Mon., Wed., Fri., at 12....Professor du Roure.
Texts:—Lanson et Desseignet, La France et sa civilization (Holt).

6. French Literature of the XIXth and XXth Centuries. Fourth Year.
3 hrs.; Mon., Wed., Fri., at 10.....Assistant Professor Furness.
Texts:—Chateaubriand, René (Nelson); Hugo, Hernani; Balzac, Le Père Goriot; French Lyrics of the Nineteenth Century (Ginn); Daniel Mornet, Histoire de la littérature et de la pensèe françaises (Larousse); Des Granges, Morceaux choisis, Classes de Lettres (Hatier); Flaubert, Trois Contes; Guy de Maupassant, Contes choisis; A. Daudet, Le Petit Chose; Anatole France, Le livre de mon ami; Paul Bourget, Un disciple; E. Rostrand, Cyrano de Bergerac.

Prose Composition:—(a) General Course.—Spiers, Graduated Course of Translation into French Prose (Simpkin, Marshall & Co., London); (b) Honour Course.—Stephen Leacock, My Discovery of England.

7. Histoire de la langue française. Third and Fourth Years. (Honour Course.)
1 hr.; Sat., at 10.....
Texts:—Darmstetter, Cours de Grammaire Historique, Parts I and II.

8. History of the French Novel.
Third and Fourth Years (Honour Course).
(Given in 1928-29.)
3 hrs.; Tu., Th., Sat., at 12.....Professor du Roure.

9. History of the French Theatre of the XIXth Century.
Third and Fourth Years (Honour Course).
(Given in 1929-1930.)
2 hrs.; Tu., Th., at 10.....Assistant Professor Messac.

10. **Evolution of the French Lyric.**
Third and Fourth Years (Honour Course).
(Given in 1929-1930.)
2 hrs.; Tu., Th., at 10.....Professor du Roure.

11. **Balzac.** Third and Fourth Years (Honour Course).
(Given in 1928-29.)
2 hrs.; Tu., Th., at 10.....Assistant Professor Messac.

12. **French Commercial Course.** Second Year.
3 hrs; Mon., Wed., Fri., at 12.....Associate Professor Villard.

Texts:—Mansion, Histoire de la littérature française; Richards, Manuel de lecture expliquée, XIXème siècle (Cambridge); Sand, La mare au diable (Ginn); Molière, Les Précieuse ridicules (Heath); Carroué, Manuel de correspondance commerciale.

Home Reading:—Vigny, Le Cachet rouge; Augier, Le Gendre de M. Poirier.

13. **French Commercial Course.** Third Year.
3 hrs.; Mon., Wed., Fri., at 10.....Associate Professor Villard.

Texts:—Mansion, Histoire de la littérature française; Montesquieu, Lettres Persanes (Macmillan); Rudmore-Brown, French Short Stories (Oxford); Chateaubriand, Atala (Heath); Janau, Commercial Correspondence (Longmans); Renault, Lectures commerciales (Oxford); Daniel Massé, Initiation économique (Hachette).

Home Reading:—Beaumarchias, Le Barbier de Séville; Mérimée, Colomba.

14. **French Commercial Course.** Fourth Year.
3 hrs.; Mon., Wed., Fri., at 9.....Associate Professor Villard.

Texts:—Clerget, Manuel d'économie commerciale; Lanson et Desseignet, La France et sa civilization (Holt); Gide, Principes d'économie politique; Lucas, A Book of French Verse (Oxford).

Home Reading:—Chateaubriand, Selections (Oxford); Thiers, Bonaparte en Egypte (Holt).

15. **French Science Readings.** First Year, B.Sc. Course.
3 hrs.; Tu., Th., at 9.....M. d'Hauteserve.

Texts:—Greenfield and Babson, Industrial and Scientific French (Ginn); J. Verne, Vingt mille lieues sous la mer (Heath).

mcgill, 1928-29

HONOUR COURSE IN FRENCH

Prerequisite:—1.

Second Year:—2 and 3.

Third Year—4, or 5A and 5B, and 7, 9, 10 and a full course in another subject approved by the Head of the Department.

Fourth Year—6, or 5A and 5B, and 7, 9, 10 and a full course in another subject approved by the Head of the Department.

FRENCH REQUIREMENTS FOR THE HONOUR COURSE IN FRENCH AND OTHER SUBJECTS

Second Year:—2 and 3.

Third Year:—4, or 5 A and 5 B, and 7 and 9 or 7 and 10.

Fourth Year:—6, or 5A and 5B, and 7 and 9 or 7 and 10.

M.A. COURSE

See page 487.

DEPARTMENT OF SOCIOLOGY

ASSOCIATE PROFESSOR AND DIRECTOR OF THE SCHOOL FOR SOCIAL WORKERS:—CARL ADDINGTON DAWSON.

ASSISTANT PROFESSOR:—EVERETT CHERRINGTON HUGHES.

ASSISTANTS:—SIDNEY G. GARLAND, HELEN MACGILL HUGHES.

1. **Introduction to the Study of Society.** Second Year.

(a) Tu., Th., Sat., at 10.....Dr. Dawson and Dr. Hughes.

(b) Tu., Th., Sat. at 11.....Dr. Dawson and Dr. Hughes.

An environmental approach to the study of human nature and behaviour; an objective and scientific analysis of human relations; ecological and social forces; the great society and the growth of communication; conflict as a social function; the social order and social change; definition and use of the main sociological concepts.

2. **The Community.** Third and Fourth Years.

Tu., Th., Sat., at 9.....Dr. Dawson and Mrs. Hughes, Research Assistant.

A study of Greater Montreal in comparison with the small town and open country communities. Analysis of the basic forces that condition the social life and social institutions of the great community. The trend of urbanization and its effects on human behaviour. Cities as centres of dominance and culture. Student research under direction.

3. **Immigration.** Third and Fourth Years.

Tu., Th., at 2, and a third hour to be arranged, 2nd term....
Dr. Dawson.

Canadian population, racial origins, racial differences and race relations. Social effects of migration and immigration. Selection and assimilation of immigrants. The optimum population for Canada.

4. **Social Pathology.** Third and Fourth Years.

Mon., Wed., Fri., at 10, 2nd term.....Dr. Hughes.

The processes of social disorganization; the basic causes of poverty, unemployment, irregular work, industrial fatigue and the consequent demoralization of the individual and disorganization of the social group; social unrest and disorder; critical analysis of the attempts to control and reorganize society in the light of pathological social conditions; modern methods of research in the study of social change as it is related to social pathology.

Text:—Parmelee, Poverty and Social Progress (Macmillan).

5. **Social Origins.** Third and Fourth Years.

Mon., Wed., Fri., at 9, 1st term.....Dr. Hughes.

The culture and social organization of primitive or pre-literate peoples, including anthropological data on:—Marriage and kinship; property and the division of labor; magic, religion and science; taboos, customs and morals; myth, folklore and legend; art, ornament and decoration; war, slavery, punishment and the state; the mind of primitive man. The processes of invention and diffusion in the origin and development of culture.

6. **Social Movements.** Third and Fourth Years.

Mon., Wed., Fri., at 9, 2nd term.....Dr. Hughes.

The natural history of typical social movements, such as revivals, migrations, revolutions, reform and political movements; classification of such movements; the "life-cycle" of a social movement; social movements in relation to social change.

7. **The Family.** Third and Fourth Years.

Mon., Wed., Fri., at 10, 1st term.....Dr. Hughes.

The study of the family as the fundamental institution, its early forms, attitudes, and natural history, sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational and legal aspects of family life. Present-day disorganization and reorganization of family life.

Text:—Mowrer, Family Disorganization (University of Chicago Press).

8. **Social Progress.** Fourth Year and Graduate Students.
Mon., Wed., Fri., at 2, 2nd term.....Dr. Hughes.

Theories of social progress; social trends; social lag; progress and invention.

9. **Social Research.** Graduate Seminar. Research problems, theory and methods.
Hours to be arranged.....Dr. Dawson.

10. **Delinquency and Crime.** Third and Fourth Years.
(Not given in 1928-29.)

11. **Social Control.** Fourth Year and Graduate Students.
(Not given in 1928-29.)

12. **Social Attitudes.** Fourth Year and Graduate Students.
(Not given in 1928-29.)

13. **Personality.** Fourth Year and Graduate Students.
Mon., Wed., Fri., at 2, 1st term.....Dr. Dawson.

Social situations, social conditioning, personality development, and personality types. An extensive use of concrete descriptive material, biographical and autobiographical documents. Problems of personality adjustment.

Honour Course

Second Year:—Course 1 and either Psychology 1 or Economics 1.
Third Year:—Four full courses from 2 to 13.
Fourth Year:—Any four full courses from 2 to 13 other than those selected in the Third Year.

At the discretion of the Department certain courses in other Departments may be substituted for some courses in Sociology.

Students taking honours in Sociology and one other subject are required to take two courses in each Department.

Graduate Courses

See page 488.

DEPARTMENT OF ZOOLOGY

PROFESSOR:—ARTHUR WILLEY.

ASSISTANT PROFESSOR:—N. J. BERRILL.

ASSISTANT PROFESSOR OF MEDICAL ZOOLOGY:—M. NOTKIN.

DEMONSTRATORS:—JEAN T. HENDERSON. J. K. BREITENBECHER. KATHLEEN PINHEY.

1M. Premedical Zoology.
2 hrs., 1st term; Tu., Th., at 2..Professor Willey and Dr. Notkin.
6 hrs. lab., Mon., Wed., Fri., at 9.

1. Elementary Zoology.
2 hrs., 1st term; Mon., Wed., at 2....Assistant Professor Berrill.
2 hrs. lab., Fri., at 2.

2. Zoology of Invertebrata.
2 hrs.; Wed., Fri., at 4.....Assistant Professor Berrill.
4 hrs. lab.; Wed., Fri., at 2.

3. Colloquium.
1 hr.; Fri., at 5 .....

4A. Zoology of Vertebrata.
2 hrs., 1st term; Mon., Fri., at 10.....Professor Willey.
3 hrs. lab., Th., at 9.

4B. Parasitology.
2 hrs., 2nd term; Mon., Fri., at 10.....Professor Willey.
1 hr. lab., Th., at 9.

5. Comparative Embryology.
2 hrs., 2nd term; Mon., Wed., at 11 .....
2 hrs. lab., Wed., at 2.

6. Ecology.
By arrangement .....

7. Ethnology.
1 hr.; Tu., at 10.....Professor Willey.

HONOUR COURSE IN BIOLOGY

Prerequisites:—Botany 1; Chemistry 1; Zoology 1.
Second Year:—Botany 2 and 3 (with laboratory work); Zoology 2, with at least Physics 1, or Chemistry 2 or their equivalent.
Third Year:—Botany 4 and 5; Zoology 3 and 6.
Fourth Year:—Botany 6 and 7; Zoology 4 and 5.

DEPARTMENT OF PHYSICAL EDUCATION

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.

ATHLETICS MANAGER:—D. S. FORBES.

TRACK COACH AND ASSISTANT PHYSICAL DIRECTOR:—F. M. VAN WAGNER.

ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY.

PHYSICAL DIRECTOR FOR WOMEN:—JESSE S. HERRIOTT.

ASSISTANT PHYSICAL DIRECTOR FOR WOMEN:—RUTH HARVEY.

ASSISTANT PHYSICAL DIRECTOR FOR WOMEN:—ETHEL WAIN.

FOR MEN

In order to promote as far as possible the physical welfare of the student body, all First and Second Year students and all students coming to the University for the first time, will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of all years who wish to engage in athletic activities, are also required to be physically examined. The hours for this examination will be announced at registration. As a result of this examination each student will be placed in one or other of the following categories:

(*a*) Fit for all forms of physical exercise.
(*b*) Fit for a limited number of forms.
(*c*) Fit for gymnasium work only.
(*d*) Fit for remedial gymnastics or temporarily unfit.
(*e*) Unfit for any form of physical exercise.

At the same time he will be asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow, unless debarred for medical reasons, under which circumstances he will be given a further choice among other recognized but less strenuous forms of exercise or will do gymnasium work as the case may require.

Physical education is compulsory for all students of the first two years. Two periods per week will be devoted to it.*

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* Owing to lack of accommodation, this requirement is suspended for the session 1928-29.

Any student participating in competitive athletics may be excused from other forms of exercise during the season of training, provided that this is performed to the satisfaction of the Director.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of the Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the Faculty.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education

Not less than one month before the conferring of degrees in each session, the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculty, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lectures, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

During the session and including the Christmas holidays, all teams and individual *students desiring to participate in "outside"* athletics*

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* Outside athletics is interpreted to mean the athletics over which the Athletic Board of the University or the Canadian Intercollegiate Athletic Union does not have control.

must first apply to the Captain or Manager of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examination, etc., such student shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

All students intending to take part in an intercollegiate competition must fill out an Eligibility Certificate and send it in to the team manager or to the Athletic Office at least seven days before the competition takes place.

(For further regulations see handbook published by the Athletic Board.)

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, when requisitioned for by the Department. A leaflet concerning this service and the general work of the Department, together with the regulations governing athletics, will be distributed at the opening of the session.

FOR WOMEN (Royal Victoria College)

In order to safeguard the health of the women undergraduate students all entrants will be required to satisfactorily pass a health examination. An effort will be made to furnish adequate health service to all Women Students during their University career.

The Department of Physical Education for Women aims to provide a suitable programme of activities so organized as to offer equal opportunities to all undergraduates. An outstanding objective of the Department is to create in the mind of every student a love for wholesome activity so that the work will become an integral part of the student's life and thus contribute to leisure time activities.

Work in the Department of Physical Education amounting to a total of 126 hours during the four years' course is required of all undergraduate students. The requirement in the Faculty of Music is a total of 86 hours—two hours per week for the first two years. Partial Students may register for work in the Department on payment of $5.00 for a class of two periods a week. The scope of the work includes six lectures on Personal Hygiene during the first month of the Freshman year and the remainder of practical work.

The results of the health examination will determine the programme, and every effort will be made to suit the activities to the needs of the student.

Any student failing to meet the above requirement will be reported to the Dean as conditioned in the subject of Physical Education. Such condition may be removed only by repeating the work of a term. Not less than one month before the conferring of degrees in each session, the Director shall furnish the Registrar of the University for transmission to Corporation and the Faculty, a list of all students being candidates for degrees at the forthcoming Convocation who have failed to satisfy the requirements of the Committee on Physical Education.

Strathcona Prizes are offered in this Department, open to students of all years. Regulations governing the awarding of these prizes will be announced in the Spring of each year.

All cases of absence from class must be reported to the Department.

Every student is required to wear the costume recommended by the Department.

A leaflet containing full information concerning the University Health Service will be given to all students at the opening of the Session.

Intramural and extramural activities are organized by the McGill Women Students' Athletic Association, Group II R.V.C., under the supervision of the Department of Physical Education.

To meet the requirements in the Department of Physical Education for Women, all undergraduate students should enroll for any two of the following courses:—

1. **Intermediate Formal Gymnastics.** Entire Session.
   Wednesday, at 12.

   This course includes lessons in formal and rhythmical gymnastics, elementary apparatus work, and participation in organized indoor games.

2. **Advanced Formal Gymnastics.** Entire Session.
   Monday, at 12.

   This comprises formal and rhythmical gymnastics, with advanced work on apparatus and organized games.

3. **Intermediate Informal Gymnastics.** Entire Session.
   Thursday, at 11.

   The material of this course will include game skills, stunts, tumbling activities.

4. **Clog and Folk Dancing.** Entire Session.
Monday, at 3.
This course includes various types of folk and clog dances.

5. **Intermediate Natural Dancing.** Entire Session.
Monday, at 11.
This material is a rhythmic interpretation of free and natural movements and play activities.

6. **Advanced Natural Dancing.** Entire Session.
Wednesday, at 11.
Advanced material of course No. 5.

7. **Intermediate Character and Interpretive Dancing.** Entire Session. Wednesday, at 2.
The course includes bar work, dancing technique, character and interpretive dances.

8. **Advanced Character and Interpretive Dancing.** Entire Session.
Friday, at 12.
Advanced material of course No. 7.

9. **Badminton.** Entire Session.

Sections:

Monday, at 11.	Wednesday, at 11.	Thursday, at 2.	Friday, at 11.
Monday, at 2.	Wednesday, at 3.		Friday, at 12.
			Friday, at 2.
			Friday, at 3.

The course includes practice in playing Badminton and participation in tournaments. Rackets must be furnished by the student.

10. **Elementary Fencing.** Entire Session.
Monday, at 12.
Fundamentals of fencing taught in this class, with practice in fencing plays.

11. **Intermediate Fencing.** Entire Session.
Thursday, at 2.
Fencing plays and participation in bouts.

12. **Elementary Swimming and Badminton.** Entire Session.
Swimming Class: Mon., Thurs., at 3-3.30 (Y.W.C.A.), Fall and Spring Terms.

Badminton class: See sections of Course No. 9.

The Swimming course comprises class instruction in strokes and elementary diving. (An extra fee of $3.00 per year is charged for swimming.)

13. **Advanced Swimming and Badminton.** Entire Session.

Swimming class: Mon., Thurs., at 3.30-4. (Y.W.C.A.), Fall and Spring Terms.

Badminton class. See sections of Course No. 9.

14. **Elementary Swimming and Ice Hockey.** Entire Session.

Swimming class: See Course No. 12.

Ice Hockey: Tuesday, at 4. First and Second Year. Winter Term. Saturday, at 10. Third and Fourth Year. Winter Term.

15. **Advanced Swimming and Ice Hockey.** Entire Session.

Swimming class: See Course No. 13.

Ice Hockey: See Course No. 14.

16. **Intermediate Basketball and Baseball.** Entire Session.

Section: Monday, at 3; Tuesday, at 2.

This combined course consists of basketball in the Fall and Winter Terms, and baseball in the Spring, and includes the practice of the games and matches.

17. **Advanced Basketball and Baseball.** Entire Session.

Section: Thursday, at 5; Saturday, at 12.

Advanced material of Course No. 16.

EXAMINATION TIME TABLES—Faculty of Arts.

SCHOLARSHIP AND SUPPLEMENTAL EXAMINATIONS, SEPTEMBER, 1928.

DATE	Hour.	Supp. to First Year Sessional.	Second Year Scholarships.	Supp. to Second Year Sessional.	Scholarships (Third Year).	Sup. to Third and to Fourth Year Sessional.*
Thursday.....13	9.00		English Literature (Shakespere, Scott and Tennyson).	Philosophy, 1 Zoology, 1M	English Literature (Shakespere and Milton).	Mathematics, 3, 6. Psychology, 3. Commercial Law.
	2.00	English 2 (and Com.)	English Literature (Thackeray, Eliot and Macaulay)	English 4.	English Literature (Ruskin and Arnold).	English 11, 12, 17.
Friday.....14	9.00	Latin, 1.	Latin Books.	Economics 3. Latin, 2.	Latin Texts.	History, 3, 4.
	2.00	Greek, 1. Accountancy (1 Com.)	Latin Composition, Sight Translation, and Roman History.	German, 4, 5B.	Latin Composition, and Sight, and Roman History.	Economics, 12. Chemistry, 3B.
Monday.....17	9.00	French 1, 17.	French Texts.	French, 2, 12 (Com.)	French Books.	French, 4, 5, 6, 7.
	2.00	History, 1.	German Texts.	Accountancy (II Com.)	French Composition and Sight.	Physics, 3B Accountancy (III Com.)
Tuesday.....18	9.00	Maths. 1. (Algebra) and Com.	Geometry and Trigonometry. History.	Maths. 2. History 2.	Animal Biology. Analytical Geometry and Trigonometry..	English, 7. Economics, 13. French, 13 (Com.)
	2.00	Maths. 1. (Geom. and Trig.) and Com.	German Composition and Sight.	Economics, 2.	German Books. Plant Biology. Logic.	Chemistry, 4, 12.
Wednesday....19	9.00	Physics, 1	Greek Books, Algebra (Minor), Algebra and Theory of Equations (Major). History.	Economics, 1. Greek, 4. Physics, 1M.	Greek Texts. Physics. Psychology.	Education, 1. Hebrew, 1, 2. Physics, 3A, 4, 7A.
	2.00	Botany, 1	Greek Composition, Sight Translation, and History.	Geology, 1. Maths. (II Com.)	Chemistry. Greek Composition, History and Sight Translation.	Chemistry, 5. English, 6, 10. Geology, 3, 4, 5.
Thursday.....20	9.00	German, 1, 2, 3. Spanish.	French Composition and Sight.	Botany. 1 M.	Calculus, German Comp. and Sight.	Botany, 4. Sociology, 1, 2.
	2.00	Zoology, 1. Chemistry, 1.	Physics.	Chemistry, 1, and Com. Spanish (II Com.)	History and English Composition. Philosophy. (Berkeley).	Chemistry, 2, 6, 7A. Spanish (III Com.)
Friday.....21	9.00			Psychology, 1. Physics, 2.		Economics, 6.

*Periods for other subjects to be arranged at the time of the Examination.

EXAMINATION TIME TABLE

FACULTY OF ARTS

SESSIONAL EXAMINATIONS, MAY, 1929. Subject to Revision

DATE	MORNING	AFTERNOON
Wednesday, May 2nd.....	Botany, 3 Latin, 11, 12 French, 14 (IV Com.) Geology, 1 German, 9 History, 2 History (special subjects) Mathematics, 1 (Alg.) and Adv. Accountancy (II Com.)	Chemistry, 7A Latin, 12 Economics, 13 Geology, 1 (Museum) Mathematics, 1 (Geom. & Trig.) and Adv. Physics, 8B Sociology, 11 Mathematics (I Com.) Spanish (III Com.)
Thursday, May 3rd.....	Greek, 2, 11 French, 2A, 15 German, 1 Geology, 3 (Museum) History, 7 Mathematics, 5, 10 Physics, 4 Economics, 21 (II Com.)	German, 1 Geology, 5 (C. & M. Bldg.) History, 3 Psychology, 2 Sociology, 2 Spanish (IV Com.)
Friday, May 4th.....	Chemistry, 5 Latin, 1 English, 6 French, 4, 6 German, 5B Mathematics, 2, 7, 9 Physics, 5A Psychology, 1, 4 Zoology, 4B	Latin, 1 Economics, 6, 25 French, 13 (III Com.) German, 5B Hebrew, 7 Sociology, 4
Monday, May 7th.....	Chemistry, 15 Greek, 1, 12 Economics, 24 French, 7 Geology, 8 (with App. Sci.) Hebrew, 5 Philosophy, 1 Psychology, 9 Sociology, 1A Mathematics, 11 and II Com.	Chemistry, 8 Greek, 12 French, 9 German, 2, 3 History, 4, 5 Zoology, 7 Physics, 5B Accountancy (III Com Spanish (I Com.)
Tuesday, May 8th.....	Chemistry, 6 Greek, 5 Economics, 1 French, 1 and Adv. Geology, 10 (C. & M. Bldg.) German, 5A Mathematics, 11 Hebrew, 15 Physics, 3A Accountancy (IV Com.)	Greek, 5 Economics, 2, 22 German, 5A History, 8 Hebrew, 6, 11 Physics, 3B
Wednesday, May 9th.....	Greek, 4 English, 10 French, 2B, 3 German, 12 History, 1 Physics, 2, 7B Spanish (II Com.) Statistics	Greek, 4 German, 14 Hebrew, 13 Physics, 7A Psychology, 12 Sociology, 1B

Date	Morning	Afternoon
Thursday, May 10th.....	Chemistry, 1, 9 (Dr. Hatcher) Economics, 29 German, 7 History, 6 History (General Paper) Philosophy, 2 Accountancy (I Com.)	Chemistry, 4 Economics, 3, 15 English, 15 French, 5B, 12 (II Com.) German, 7 Music, 1 Hebrew, 1 Philosophy, 2 Psychology, 7
Friday, May 11th.....	Botany, 6 Greek, 3 Latin, 2, 3 Economics, 12, 23 English, 2 French, 10 Philosophy, 3 Physics, 8A Marine Insurance	Chemistry, 2 and 10 Latin, 2, 3 English, 1, 20 Geology, 2 Mathematics, 3, 6 Philosophy, 3 Hebrew, 2
Saturday, May 12th.....	Chemistry, 1 (Prof. Evans) Chemistry, 3B, 7B Economics, 4 English, 12 Mathematics, 6 Psychology, 3	Economics, 4, 32 Physics, 1, 1M, 9
Monday, May 14th.....	Economics, 8, 10..... English, 4 Hebrew, 12 Physics, 6A Business Organization Mathematics (Intermediate and Final Com.)	Botany, 1 Botany, 4 (Biol. Lab.) Sociology, 10 Zoology, 2
Tuesday, May 15th.....	Botany, 7 (Biol. Lab.) German, 3 (App. Sci.) Philosophy, 4	Botany, 1M Mathematics, 4B Philosophy, 4 Zoology, 6 (Biol. Lab.) Commercial Law
Wednesday, May 16th.....	Education, 2 German, 4 Hebrew, 16	

THE ROYAL VICTORIA COLLEGE

Founded and Endowed by the late Rt. Hon. Baron Strathcona and Mount Royal

FOUNDATION AND HISTORY

The College was opened September 4th, 1899.

It is the outgrowth of plans conceived during the early years of his principalship by the late Sir William Dawson, which resulted in the establishment of the Ladies' Educational Association. Under the auspices of the Association, courses of lectures, delivered chiefly by Professors of McGill University, were offered to women from 1870 until 1884, thus placing within their reach, to some extent at least, the advantages of a Collegiate and University education.

In 1884, during the principalship of the late Sir William Dawson, the late Lord Strathcona, then Mr. Donald A. Smith, gave a sum of $50,000, and, in 1887, a further sum of $70,000, to found the Donalda Endowment for the higher education of women, such education to be conducted in the buildings of McGill College, as a distinct course in the Faculty of Arts, with the understanding that as soon as practicable the classes were to be created into a separate college of McGill University, with a building separate from that of McGill College. Under the terms of the Donalda Endowment it was provided that degrees in the Faculty of Arts should be granted to women practically on the same conditions as to men, and that the examinations for such degrees for classing, honours, prizes and medals should be identical with those for men.

As a result of this generous gift and in accordance with the conditions attached, courses of instruction, identical in subject and in standard with those of the Faculty of Arts, were established for women in 1884. These courses were given in the Arts Building, some of the work of the Third and Fourth Years and of the Honour Courses being conducted in joint classes.

The first graduating class of eight women was presented for the degree of Bachelor of Arts in 1888.

The ultimate object of Lord Strathcona had been the provision of a residential college, and this was realized when the Royal Victoria College was opened in 1899, and formally inaugurated by their Majesties the King and Queen (then Duke and Duchess of York) in 1901.

A Warden and Resident Staff were appointed. With these new and great advantages the instruction provided by the original endowment has been maintained as hitherto, except that the separate classes are held mainly in the College building. Women have continued to prepare for degrees in Arts, including pure science. Through the wisdom of Lord Strathcona, provision was aso made for the study of music. Since, however, the establishment of music as a separate department of the University in the Conservatorium of Music, independent instruction in music in the College has ceased, but it still maintains a resident lecturer in this subject, who is also Vice-Director of the Conservatorium. The interest of College students in music is thereby served and provided for. Women students resident in the Royal Victoria College may take degree courses in music at the Conservatorium.

Resident students of Music have the use of pianos in two practising rooms and at certain hours in other parts of the building.

Facilities for lawn tennis and for skating are provided. Subject to regulations, the students have the privilege of using the University grounds.

THE COLLEGE BUILDING

The College building, surrounded by garden and tennis courts, was erected at a cost of about $400,000 at the head of Union Avenue, upon land adjacent to the University Campus. Its beautiful and dignified exterior was designed in consistency with a careful and generous internal provision of a comfortable and gracious place of study and dwelling for students and for staff.

The building provides an academic, administrative and recreational centre for resident and non-resident students. It is situated on Sherbrooke Street, in close proximity to the University buildings, and within easy reach of Mount Royal Park. The building is fire-proof, and much thought and artistic care have been given to furnishing and decoration.

On the ground floor are the offices of the Administration, including the rooms of the Warden and Secretary, the faculty room, the students' common room, a spacious dining hall, and three lecture rooms. On the first floor are other lecture rooms, the library, reading room, and a handsome assembly hall, which is used for Conservatorium concerts, and other University purposes. This hall is sometimes lent for purposes that are in harmony with the objects of the College. The gallery, which is reserved exclusively for the use of College students on such occasions, affords the latter many opportunities of educational value. The second and third floors and a small part of the first floor are occupied by the rooms of the Resident Staff and students. Each

student has a separate study-bedroom. The rooms are completely furnished, and no article of furniture need be brought by the students. An Annex in charge of a College Tutor and adjacent to the College was opened in 1925-26. It provides study-bedrooms for students who in all other respects share the life of the students in the College building.

A large gymnasium is provided, fully equipped with modern requirements. In connection with the gymnasium are bath-rooms and dressing-rooms.

ADMISSION AND INSTRUCTION

The College, being a college of McGill University, and its students being registered in the Faculty of Arts, they are required to comply with the regulations concerning discipline and instruction, made by the University and Faculty, and, in addition, with such regulations as may be made by the Royal Victoria College.

Undergraduates are required to pass the Matriculation Examination of the University, or an equivalent examination (see page 80) and can proceed to the degrees of B.A. and B.Sc. under the regulations of the Faculty of Arts as stated on pages 148-163. They are required to wear academic dress. Partial students, in order to obtain admission, must pass the Matriculation Examination in the subject or subjects which they wish to take, or, failing this, must be able to satisfy the Head of the Department concerned that they are qualified to proceed with the course.

Students are required to enter on the roll book of the College their names, home addresses, and addresses in Montreal. Students not residing with their parents or guardians in Montreal and who do not apply for residence in the College are required to submit their plans for residence to the Warden and to obtain written approval. All students entering the University for the first time are required, according to municipal regulations, to present a certificate or other satisfactory evidence of successful vaccination.* No student who has an infectious illness or who comes from a house in which there has been an infectious illness within a month, shall enter or return to the College without giving notice and obtaining the consent of the Warden. The health of the resident students is in charge of two physicians (Dr. W. F. Hamilton and Dr. C. F. Martin), who may be consulted, free of charge, by arrangement with the Warden. Every student applying for admission to residence is required to fill in an entrance form and to forward a medical certificate on a form provided by the College.

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*For the Session 1928-29 *all* students have to comply with this regulation.

Instruction is given by professors and lecturers of the University and lecturers and tutors of the Royal Victoria College, who are also members of the various teaching departments of the Faculty of Arts. Graduate students can proceed to the degrees of M.A., M.Sc. and Ph.D.

Lectures are given in the College or in the University buildings, practical instruction in science being given in the University laboratories. Students are assisted in their studies by the resident staff.

Students of the College have the use of the University Library. There is also a College Library comprising works of general literature and the chief stated books required for the University curricula, the Department of Romance Languages being especially well represented. The College Library and Reading Room are open to resident students from 9 a.m. to 11 p.m. and to non-resident students from 9 a.m. to 6 p.m. (on Saturdays from 9 a.m. to 1 p.m.).

The Peter Redpath Museum, containing large collections in mineralogy, palæontology, zoology, botany, archæology, and ethnology, is open to students of the College.

The Warden's business hours are 10 a.m. to 1 p.m.; at other times, by special appointment. She will be glad to meet all students before the opening of the session and to discuss their plan of work then or at any other time during the session.

Applications for admission should be addressed to the Warden, Royal Victoria College, Montreal.

EXHIBITIONS AND SCHOLARSHIPS

For a statement of the exhibitions and scholarships open to women students of the University, see pages 103-116.

In addition to these, and further to encourage residence within the College walls of students who might otherwise arrange to board in the City, the Warden and Staff are empowered to make nominations in any of the four college years to not more than three additional exhibitions of the value of $100 each.

TUITION FEES

Students (graduate, undergraduate or partial, resident and non-resident) pay the same fees as are charged in the Faculty of Arts. For undergraduate students the fee is $125* (this includes fees for library, gymnasium and graduation). For further information, see pages 133 and 134. Every undergraduate pays an Athletics or Grounds fee of $6.00, the McGill Women Students' Society fee of $2.50, and $1.50 for the McGill Daily. All fees are payable to the Bursar, McGill University, on October 1st, 2nd and 3rd.

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* For students who entered prior to 1926-27 this fee is $100.00.

BOARD AND RESIDENCE

Residence in the College is open to graduate students, undergraduates, and, in exceptional circumstances, to partial students. *Application for residence should be made early, as accommodation in the college is limited.* No room is assigned for a shorter period than the University session. Students of the First Year who, under regulations of the Faculty of Arts, are dropped from the University (see page 182) will be required to withdraw from residence. The charge for board and residence, in addition to the sessional fee for tuition, is $500 ($200 for room, $300 for board). This may be paid in two equal instalments of $250 each, in October and February. Room rent includes all expenses of heat and light (not other electrical attachments, for which fees will be charged). These charges cover the University session from the first day of registration (September 27th) to the close of the examination (for members of the graduating class, to the day after Convocation, May 30th). A deposit fee of $10 is required when a room is reserved, and is deducted from the charges for the first term.

Students entering earlier or remaining later for purposes of instruction, practice teaching, or examination, and students arriving in September for practice teaching, supplemental or matriculation examinations, are charged an additional fee of $1.50 a day. No additional fee is charged to students returning earlier than September 27th, for scholarship examinations. With the permission of the Warden, students may remain in residence during the Christmas vacation. They will be required to pay a fee of $1.50 a day for board and residence.

The charges for tuition and room rent are not subject to remission or reduction under any circumstances. Rooms cannot be reserved for a shorter period than the University session. In case of prolonged illness and absence from College for a period of six weeks or more a proportionate reduction is made in the charge for board. Information concerning Bursary and Loan Funds can be obtained from the Warden.

Notice of withdrawal should be given at the close of the session, or not later than September 1st. Rooms are not reserved for students whose standing at the end of the Session does not entitle them to proceed to the next year (*see page* 162).

PHYSICAL EDUCATION

See pages 219 to 222.

MUSIC

Students taking courses in music leading to the degree or diploma are eligible for residence in the College.

Instruction in music is offered at the McGill Conservatorium of Music—Director, Dr. H. C. Perrin; Vice-Director, Miss Clara Lichtenstein, Resident Lecturer in the Royal Victoria College. Students may prepare for the degree examination in music of the University, or for the Diploma of Licentiate in Music.

For information regarding courses in Music, see pages 198 and 414.

COLLEGE SOCIETIES

The students maintain the following societies:—The Royal Victoria College Undergraduates Society, and also the Athletic Association, Group II, R.V.C.; the Delta Sigma Literary and Debating Society; La Société Française; the Women Students' Christian Association (R.V.C.); the Music Club of the R.V.C.; all organized under the McGill Women's Students' Society.

SCHOOL OF COMMERCE

COURSE FOR THE DEGREE OF BACHELOR OF COMMERCE

The course extends over four years, and students who successfully complete it will be granted the Degree of Bachelor of Commerce (B.Com.).

The curriculum is as follows:—

FIRST YEAR

(a) Obligatory Subjects.

English 1 and 2.
Mathematics 1.
French, or **Spanish**, or **German**.
Accountancy.

(b) Optional Subjects (two to be chosen).

Latin, or **Greek**.
German, or **Spanish**, or **French**.
Physics, or **Biology**, or **Chemistry**.
History 1.

N.B.—(a) High School Physics is a prerequisite to Chemistry.
(b) Students intending to take up Mathematics 9 in the Fourth Year must obtain 65 per cent in the Mathematics of the First Year.

SECOND YEAR

(a) Obligatory Subjects.

French, or **Spanish**, or **German** (continued).
Accountancy.

(b) Optional Subjects (three to be chosen).

Economics 21.
English.
Mathematics 2.
Mathematics 2 of the Faculty of Arts.
Mathematics 3 of the Faculty of Arts.
Psychology.
German, or **Spanish**, or **French** (continued).
Chemistry.

N.B.—(a) Students proceeding to Mathematics 9 in the Fourth Year must pass in Mathematics 2, and in Mathematics 2 and 3 of the Faculty of Arts, with at least 65 per cent of the total marks.
(b) Mathematics 2 is a prerequisite to Third and Fourth Year Accountancy.

THIRD YEAR

(a) Obligatory Subjects.

French, or **Spanish** (continued for students who have taken one of these subjects during their First and Second Years).

(b) Optional Subjects (four 3-hour courses, or their equivalent, to be chosen).

Accountancy.
Business Organization and Scientific Management (half course).
Business and Industrial Psychology (half course).
Commercial Law.
Economics 22.
Economics 26 and 27, or 28 and 29.
Economics 23.
Economics 31, 32, 33.
English.
Mathematics 3 (half course).
Mathematics 7 of the Faculty of Arts.
Spanish, or **French** (continued).

N.B.—(a) Only half credit will be given to a second modern foreign language begun after the Second Year. Students should further note that time-table complications may make it impossible to begin a second language in any Year except the First.

(b) Mathematics 7 must be taken by students proceeding to Mathematics 9 in the Fourth Year.

(c) First and Second Year Accountancy are prerequisites to Accountancy in this Year.

(d) Economics 1 is a prerequisite to all the other courses in this Department.

(e) Second Year Psychology is a prerequisite to Business and Industrial Psychology.

FOURTH YEAR

(Five 3-hour courses, or their equivalent, to be taken).

French (continued).
Spanish (continued).
Accountancy.
Mathematics 9 of the Faculty of Arts.
Commercial Law.
Transportation and Marine Insurance (half course).
Mathematics 3 (half course).
Economics 24.

Economics 25.
Economics 26 and 27, or 28 and 29.
Economics 31, 32, 33.
English.

N.B.—(a) Third Year Accountancy, Mathematics 2, Business Organization and Scientific Management and Commercial Law are all prerequisites to Fourth Year Accountancy.
(b) Economics 21 is prerequisite to all the courses in Economics in the Fourth Year.
(c) The Mathematical courses prescribed in the first three years are all prerequisites to Mathematics 9 in the Fourth Year.
(d) Mathematics 3, Economics 26 and 27, or 28 and 29, and English can be taken in either the Third or the Fourth Year.
(e) Candidates proceeding to the diploma of C.A. must take the Commercial Law course in both Third and Fourth Years, and must obtain a minimum of 60% of the marks assigned to these two courses.

Graduates in Commerce may obtain a B.A. degree by one additional year of residential study in Arts; provided that during the five years of their course they have satisfied all the requirements for this degree.

Graduates in Commerce, who during their course have taken the requisite programme in Economics, and who have obtained in Latin a standing equivalent to entrance to the Second Year Arts, may enter the Graduate School as candidates for the M.A. degree in Economics and Political Science. The requisite programme in Economics consists of courses 21, 22 and 24 with either 23 and 25 or 26 and 27, 28 and 29.

DIPLOMA OF LICENTIATE IN ACCOUNTANCY

To obtain the Diploma of Licentiate in Accountancy, which carries with it right of entrance into the Society of Chartered Accountants of the Province of Quebec, or into the Institute of Accountants and Auditors of the Province of Quebec, or into the Corporation of Public Accountants of the Province of Quebec, the student must satisfy the following conditions:—

(a) He must pass all the examinations required for, and leading up to, the Degree of Bachelor of Commerce.

(b) He must pursue the course of studies prescribed in this programme for Accountancy students.

(c) He must comply with all ordinances regulating practical work to be done by students during the vacation.

(d) He must spend at least one year, subsequent to his obtaining the Degree of Bachelor of Commerce, in the office of a practising accountant.

(e) He must have attended as an undergraduate, the course in Mathematics 3 given in the Third and Fourth Years, and have obtained at least 60 per cent of the marks obtainable at the examination in this subject. Failing this, he will be required to take the course in Elementary Actuarial Science described at the end of this Announcement, in the description of "Four-year course for students of the Accountancy Associations of the Province of Quebec."

(f) He must attend the post-graduate course in Accountancy and Auditing, given by Mr. H. D. Clapperton, C.A.

(g) He must then pass successfully the final examination in Accounting and Auditing before a board of six examiners composed as follows: the Director-Secretary of the School of Commerce, two Professors of McGill University, a member of the Society of Chartered Accountants of the Province of Quebec, a member of the Institute of Accountants and Auditors of the Province of Quebec, and a member of the Corporation of Public Accountants of the Province of Quebec; or before a board of five examiners should one of the Associations mentioned fail to nominate its delegate, or of four examiners should two do so, or of three if all.

McGill University has entered into an agreement with the Society of Chartered Accountants of the Province of Quebec, with the Institute of Accountants and Auditors of the Province of Quebec, and with the

Corporation of Public Accountants of the Province of Quebec, whereby the candidates of these Associations (non-graduates) will take the final examinations conjointly with the University candidates. The papers set will be the same for both classes of candidates, but the University will retain its own Board of Examiners according to the provisions laid down in Bill No. 21. (See pages 246 to 250 for description of "Four-Year Course" for students of the Accountancy Associations of the Province of Quebec.)

The Society of Chartered Accountants of the Province of Quebec has agreed to accept apprenticeship in an Accountant's Office anywhere in Canada.

Graduates must exert themselves to find an Accountant's Office willing to accept them during their period of apprenticeship. The University has no obligation in the matter.

The examination in Auditing and Accounting will be held in the month of May each year. In the present year (1928) an additional examination in this subject will be held in November.

The fee for the examination in Auditing and Accounting is $25.00. Previous examination papers may be obtained at the Bursar's Office for $1.00 per set.

N.B.—For the benefit of graduates located in the West of Canada, centres for the final examination in Accounting and Auditing may be established in Winnipeg and Vancouver. Those wishing to sit at either of these centres should give early notice (before April 1st, and also in 1928 before October 1st) to the Registrar of McGill University. Such notice should be accompanied by the special fee of $50.

COURSES OF LECTURES

ACCOUNTANCY

The accountancy work has been carefully graduated and correlated, and is intended not merely to fulfil its part in a general scientific business training, but also to prepare and assist those who purpose taking up accountancy as a profession.

No previous knowledge of bookkeeping is assumed or required; the subject is developed rapidly along the lines that prevail in practice.

FIRST YEAR

The following plan will give a good indication of the ground covered in this year:—

The principle of debit and credit; books of original record, how they should be kept, and how utilized; documents employed in connection with them; sales, purchases, consignments, and how to handle them; returns inwards and returns outwards; subsidiary ledgers, and controlling accounts to represent them in the general ledger; special forms of cash-book required to facilitate such control; notes and drafts, discounting and renewal of notes, and the proper methods of treating these operations in the accounts; single entry, how to change to double entry, and vice versa; distinction between revenue and capital expenditure; trading, and profit and loss statements and balance sheet; single proprietorships.

The student will be required to sift and classify his detail, write up all the books of record and account mentioned, and focus results of the various transactions or operations into the final statements.

SECOND YEAR

The subject matter for this Year will be as follows:—

Special problems that occur in connection with partnerships: The deed of partnership; rights of partners; effects of dissolution; methods of distributing profits; the bringing in of other partners; goodwill; transformation of a firm into a corporation; departmental accounts; organization and records required; sectional balancing of ledgers and systems of internal check; analysis of expenses; distribution of expenses over departments; results in each department; comparison of these results with those shown in other periods; manufacturing accounts; the elements of cost accounting; records to take care of purchases; the voucher system; depreciation and methods of providing for it; allowances and reserves.

THIRD YEAR

The work of the Third Year will embrace:—

(a) Theory of the Balance Sheet: Its form and elements; valuation of these elements; comparative balance sheets and deductions to be drawn from them; double account system; the income statement.

(b) Corporation Finance: Development of the corporation; status and interior organization of the corporation; how to incorporate; different classes of incorporation; promotion and underwriting; stock and bond issues; temporary loans; initial operations; earnings and their disposition; secret reserves; betterments; surplus; control exercised by directors and majority stock-holders; its abuse; consolidations; insolvency; re-organizations; different bases of capitalization; problems connected with stock and bond issues; bonus stock; treasury stock; watered stock; discount and premium on bond issues; sinking funds.

(c) Export Houses: Records and accounting system required.

(d) Cost Accounting: General considerations; advantages of cost systems.

FOURTH YEAR

(Intended especially for students proceeding to a Diploma in Accountancy, although this course may be taken by all students who have reached the required standard.)

Cost Accounting: Control of stores, purchasing and issuing, the running inventory; quality, remuneration, and control of labour, different methods of distributing overhead expenses or "burden" and their limitations; calculation of machine-rates; waste and leakage in factories; idle time; forms used in different "job and process" costing systems; how selling price is computed; connection of cost records with general accounts.

Branches, Consolidations, Mergers: Accounts of head office and of branches; consolidated statements and balance-sheets; holding corporations; control of stock and bond issues; minority holdings; advances to subsidiaries; inter-company profit and liabilities; capital assets and capital liabilities; initial surplus and goodwill.

Insolvency Accounts: Various schedules adopted; statements of affairs; deficiency statement; realization and liquidation account.

Auditing: Considerations applicable to all undertakings, and special considerations applicable to particular concerns.

Trustees' Accounts: Executorships and administratorships; accrued claims; accrued expenses; corpus and income.

Accounting in Insurance Companies: General considerations; systems used.

Bank Accounts: General considerations.

Municipal Accounts: General considerations.

Peculiarities in the form of accounts required in other undertakings.

BUSINESS ORGANIZATION AND SCIENTIFIC MANAGEMENT

Commercial Organization: Origin, growth and classification of business organization; tests of efficiency in business organization; social and economic and legal aspects in the following types of organization: single proprietorship; partnership; joint stock company; corporation; agreements, pools, kartells, simple business trusts; combination trusts; community of interest organizations; securities-holding organization; amalgamation, and mergers; launching of an industrial enterprise; planning of a factory; purchase and control of raw materials; labour and its control; wage systems, welfare work; reorganization of a factory; the committee system; the location of industries; principles of management; types of management; departmental relations; standardization and equipment; standardized operations; written standard-practice instructions; adequate records; efficiency rewards.

CHEMISTRY

The course includes a study of the more important elements and compounds, the general laws and principles and the fundamental theories of the science; with as many industrial applications as time will allow. The lectures are illustrated with specimens, experiments, diagrams, lantern-slides, etc. The general intention of the course is to give a thorough training in the basic principles of the science and their applications, so that chemical problems arising in connection wth future work and study may be intelligently considered.

Text-book:—McPherson and Henderson, "A Course in General Chemistry."

ECONOMICS AND POLITICAL SCIENCE

SECOND YEAR

21. Elements of Political Economy.
3 hrs., Tues., Thurs, Sat., at 9.....Assistant Professor Goforth.

THIRD YEAR

22. Economic Distribution.
This course deals with rent, wages, interest, profits, population, socialism and social reforms.
3 hrs., Mon., Wed., Fri., at 11.....Associate Professor Day.

23. Canada—Geographic Factors of Economic Development.
Geological and climatic factors as determining the natural resources of Canada; analysis of distribution of population; natural resources.
3 hrs., Tues., Thurs., Sat., at 11.....Assistant Professor Goforth.

FOURTH YEAR

24. Economic Theory of Exchange.
Money, banking, prices, index numbers, trade tariffs.
3 hrs. per week throughout the session...Asst. Professor Farthing.

25. Canada—Progress and Present Position of Economic Development.
Manufacturers, transportation, foreign trade, tariff, immigration, land settlement and organized labour.
3 hrs., Mon., Wed., Fri., at 10.....Assistant Professor Goforth.

THIRD AND FOURTH YEARS

26. Elements of Political Science and Comparative National Government and Taxation.
General principles of government, and national government and taxation in Great Britain and the United States.
3 hrs. per week, first term. Mon., Wed., Fri., at 12....
Associate Professor Day.

27. Government and Taxation in Canada.
Federal, provincial and municipal government and systems of taxation.
3 hrs. per week, second term.....Assistant Professor Farthing.

28. International Trade and Trade Policy.
3 hrs. per week, first term. Given in 1929-30.....
Associate Professor Day.

29. Social and Industrial Legislation.
A study of legislation to include factory acts, labour legislation, pensions, insurance, etc.
3 hrs. per week, second term. Given in 1929-30.....
Assistant Professor Farthing.

31. Economic Geography of the Pacific.
3 hrs. per week, first term. Mon., Wed., Fri., at 2.....
Assistant Professor Goforth.

32. Political Relations of Pacific Countries.
3 hrs. per week, second term. Mon., Wed., Fri., at 2.....
Assistant Professor Goforth.

33. Financial and Monetary Systems of Pacific Countries.
3 hrs. per week, second term.....Associate Professor Day.

ENGLISH

The fundamental purpose of the course in English is to train students to deal with such problems of expression as arise in commercial life. Considerable attention will be given to business correspondence and other forms of commercial writing. The interests of students, however, are best served, even for these special purposes, by a more general training in English. These courses will, therefore, include practice in various kinds of writing, as well as a study of English literature, in which a large amount of reading is required. As far as possible, the writing prescribed for students will be related to the work they are doing in other classes.

The following is a brief outline of the work:—

FIRST YEAR

English 1. English Composition, one hour a week. Weekly individual conferences with the instructor are required.

English 2. English Literature, as prescribed for students in the Faculty of Arts,—a general outline course from Chaucer to Kipling. Readings and fortnightly individual conferences. Two hours a week. Professor Macmillan and an assistant.

SECOND YEAR

English Literature: Choice of Second Year Arts courses.

THIRD OR FOURTH YEAR

A choice of any General Arts courses in English in these Years.

FRENCH

The study of French will be first approached from the literary side, both in order to increase its value to the student as an element of culture and in order to afford a sufficient background for the commercial studies which are to come later. These commercial studies will begin in the Second Year, and will comprise about half of the work done in that Year. In the Third Year work will be almost entirely of a commercial character.

The following is a synopsis of the work:—

FIRST YEAR

The student will have a choice between:—

(a) The Advanced Arts course in French and (b) The General Arts course in French, strengthened by tutorial class work.

SECOND YEAR

In this Year the work will be divided into two sections:—

I. A selected Arts course.

II. Work of a commercial nature, embracing:—

Commercial Correspondence: Letters of introduction, offers of service, inquiries, acceptance of offers, execution of orders, circulars, invoices and account sales; study of trade reports and commercial documents; study of contracts—bills of sale, mortgage deeds, bills of lading, charter-party, insurance contracts.

THIRD AND FOURTH YEARS

During these Years one hour a week will be devoted to a study of modern French literature. The remaining hours will be taken up with commercial work, which may be conveniently divided into:—

(a) Commercial correspondence, study of trade reports, etc., in continuation of work begun in the Second Year; and (b) colloquial French.

(The text-book to be used for this part will be P. Clerget, Manuel d'économie commerciale.)

GERMAN

The study of German will extend through the First and Second Years.

The Arts courses in German are available to Commerce students.

Provision will also be made for instruction in commercial correspondence.

LAW

THIRD YEAR

(1) Law of Contracts.
(2) Agency, Partnership and Company Formation.
(3) Negotiable Instruments and Banking Law.

FOURTH YEAR

(1) Company Law.
(2) Sale of Goods.
(3) Insurance Law.
(4) Trustees and Executors.
(5) Bankruptcy and Winding-Up Acts.

MATHEMATICS

1. **Mathematics** (For First Year students)..Assistant Prof. Tate.

Algebra. Three hours, first term.

Geometry and Trigonometry. Three hours, second term.

Text-books:—Hall, H. S., School Algebra, Parts I and II; Carslaw, H. S., Plane Trigonometry.

2. **Mathematics** (For Second Year students)....Asst. Prof. Tate.
Interest and Bond Values. Elementary Statistics.
Text-books:—Lovitt and Holtzclaw, Mathematics of Business; M. A. Mackenzie, Interest and Bond Values; Chambers, Introduction to Statistics.

3. **Mathematics** (For Third and Fourth Year students)...
.....Assistant Professor Tate.
Half course of 24 lectures delivered during the second term on Tues., Thurs., at 11.
Text-books:—Lovitt and Holtzclaw, Mathematics of Business; MacLean, Life Insurance; Knight, Life Insurance.

The following courses in Mathematics of the *Faculty of Arts* are also open to qualified students in the School of Commerce during the Second, Third and Fourth Years:—

2. **Algebra and Analytical Geometry**...Asst. Professor Matthews.
Three hours during the session, Mon., Wed., and Fri., at 10.

3. **Calculus** .....Professor Murray.
Three hours during the session, Tues., Thurs. and Sat., at 12.

7. **Theory of Equations and Finite Differences.**
Three hours during session.....Professor C. T. Sullivan.
Text-books:—Henry, Calculus and Probability; Burnside and Panton, Theory of Equations; Whittaker and Robinson, Calculus of Observations.

9. **Theory of Interest and of Life Contingencies.**
Three hours during session.....Assistant Professor Tate.
Text-books:—Spurgeon, Institute of Actuaries Text-Books, II; Borel, Probability; King, Theory of Interest.

(a) Courses 2, 3, 7, 9 of the Faculty of Arts are mainly intended for students who wish to enter the Actuarial profession.

(b) Course 2 is a prerequisite for those who wish to take Third and Fourth Year Accountancy.

(c) Courses 2, 3 and 7 of the Faculty of Arts are prerequisites for 9. A mark of 65% is required.

PHYSICS

The course in Commercial Physics consists of two lectures and a two-hour laboratory period each week. The object of the course is to introduce the students to the various scientific laws, so as to make them

familiar with the principles underlying the appliances and phenomena of every-day life. In the laboratory the students are required to make measurements and observations under the guidance of instructors. The following headings are indicative of the nature of the course given:—

Simple machines; mechanics of liquids and gases; elasticity and strength of materials; accelerated motion; force; energy; momentum; effects of heat; heat engines; a history of the developments in magnetism and electricity; battery currents; induced currents; electric power; alternating current machines; sound production and transmission; sound phenomena; sound as related to music; lamps and reflectors; lenses and optical instruments; spectra and colour phenomena; Roentgen rays and electric waves in general.

The lectures are given by Associate Professor H. E. Reilley and the laboratory work is under the guidance of Dr. D. A. Keys, with the aid of several demonstrators.

Text-book:—Whitman's Household Physics.

SPANISH

The study of Spanish will extend through all four Years, and will first be approached from the literary side. In the Second, Third and Fourth Years increasing weight will be given to commercial matters.

The following text-books will be used:—

FIRST YEAR

Coester's Spanish Grammar (Ginn & Co.); Loiseaux's Spanish Composition (Silver, Burdett & Co.); Jimenez's "Platero y yo" (Heath & Co.); Alarcon's "Novelas Certas" (Ginn & Co.).

SECOND YEAR

Coester's Spanish Grammar; Cool's Spanish Composition (Ginn & Co.); Moratin's "El si de las niñas" (Ginn & Co.); Selections from Don Quixote (Heath & Co.); prescribed portions of José Rogerio Sanchez's "Historia de la lengua y literatura españolas."

THIRD YEAR

Coester's Spanish Grammar; Cool's Spanish Composition (Ginn & Co.); Cervantes' "Rinconete y Cortadillo" (Oxford Press); Garcilaso de la Vega's first eclogue (Oxord Press); Valdés's "José" (Heath & Co.); Ten Spanish Farces (Heath & Co.); prescribed portions of José Rogerio Sanchez's "Historia de la lengua y literatura españolas"; Romera-Navarro's "Manual del Commercio" (Holt & Co.).

FOURTH YEAR

Elder's Spanish Composition (Oxford University Edition). José Rogerio Sanchez's "Historia de la lengua y literatura españolas."

Study of modern Spanish novel. Special readings will be assigned.

(Such students as desire practice in business correspondence will hand in each week for correction a composition or letter from Romera-Navarro's "Manual del Commercio" (Holt & Co.).

TRANSPORTATION AND MARINE INSURANCE

Administration and organization of inland and ocean transportation, including the early history of transportation; meaning and importance of railroad statistics; transport and storage of commodities of a perishable and special character; transportation law, marine insurance.

FOUR-YEAR COURSE

(For Students of the Accountancy Associations of the Province of Quebec)

INTERMEDIATE ACCOUNTING AND AUDITING

Twenty-eight lectures, of 2 hours each, to be given on Wednesdays, from 5.30 to 7.30 p.m., commencing October 3rd, 1928.

The work will cover the matter outlined for the first two years of the regular Commerce Course, with the addition of elementary auditing and company finance. Lecturer..Associate Professor R. R. Thompson.

MATHEMATICS

Twenty-five lectures, of 1½ hours each, to be given on Fridays, from 5.30 to 7 p.m., beginning October 5th, 1928.

The course will cover the following subject matter:—Arithmetic and geometric progressions; indices; logarithms; permutations and combinations; binomial theorem; approximations; graphs; simple and compound interest; annuities and sinking funds.

Text-books:—Hall, H. S., School Algebra, Parts I and II; Lovitt and Holtzclaw, Mathematics of Business; Chambers, Introduction to Statistics. Lecturer..Assistant Professor Herbert Tate.

INTERMEDIATE COMMERCIAL LAW

Forty-eight lectures, of 1½ hours each, to be given on Tuesdays and Thursdays, from 5.30 to 7 p.m., commencing October 2nd, 1928. Of these lectures, 16 will be devoted to the Law of Contracts, 16 to Negotiable Instruments, and 16 to Agency and Partnership.

The matter covered may be outlined as follows:—

Law of Contracts.

Sphere of Dominion and Provincial laws; persons (minors, interdicts, married women); distribution of property; essentials of contract (consent, capacity, object, consideration); interpretation; effects; breach.

Negotiable Instruments and Banking.

Characteristics of negotiability; Bills of Exchange Act; form, acceptance; delivery; capacity and authority of parties; consideration; negotiation; endorsements; presentment; dishonour; protest; liabilities of parties; discharge; lost instruments; forgeries or unauthorized signatures; alterations; bills in a set; cheques; promissory notes.

Bank Act.—Organization of a bank; rights and duties of directors and shareholders; auditors; powers of a bank re loans; security; deposits and note issue.

Agency and Partnership.

General provisions covering mandate; obligation of mandatory towards mandator, and towards third parties; obligations of the mandator towards the mandatory and towards third persons; résumé of law covering advocates, attorneys, notaries, brokers, factors, etc.; termination of mandate.

General provisions relating to partnership; obligations and rights of partners amongst themselves and towards third parties; different kinds of partnership, particular partnerships, general partnerships, anonymous partnerships, and limited partnerships; dissolution of a partnership, and the effects of such dissolution.

Lecturers..Mr. E. P. Dale Harris and Mr. W. C. Nicholson.

FINAL ACCOUNTING AND AUDITING (advanced)

Thirty-eight lectures, of 1½ hours each, to be given on Mondays and Thursdays, from 7.30 to 9.00 p.m., beginning October 4th, 1928. The following outline will indicate the scope and character of this course:—

Accounting.

(a) *Partnership.*
The formation, continuance and dissolution of partnership, including joint adventures.

(b) *Companies.*
The formation, reconstruction, amalgamation and liquidation of companies, and the various problems affecting corporation finance.

(c) Branches, consolidations, mergers, accounts of head office and of branches.

(d) The accounts of trustees and executors, including apportionment between capital and revenue, legacies, advances to beneficiaries and other special points.

(e) Bankruptcy and Insolvency Accounts, with special reference to the Bankruptcy Act of 1920.

(f) Cost Accounting.

(g) Income Tax and the like.

(h) Other companies whose accounts require special treatment, such as land companies.

Auditing.

(a) *Principles of Auditing.*
Statutory and non-statutory audits; objects of an audit; considerations on the commencement of an audit.

(b) *Audit of Cash Transactions.*
Internal checks; vouching payments and receipts and various considerations arising therefrom; missing vouchers; verification of cash in hand and at bank.

(c) *Audit of Trading Transactions.*
Internal checks; the vouching of purchases and sales, allowances and returns, and the examination of the accounts receivable and accounts payable ledgers.

(d) *Audit of the General Ledger.*
Deferred charges; accrued assets and charges; valuation of assets, depreciation, reserves, etc.

(e) *The Verification of various classes of Assets.*

(f) *The Audit of a Limited Company.*
Powers, share capital, bonds, directors, divisible profits, form of accounts and the powers and duties of auditors.

(g) *Special Points in different classes of Audits.*
Insurance and trust companies, banks, etc.

(h) *Investigations.*

Special questions, to be worked out by the students, will be set on each of the subjects outlined above, and the general accounting principles involved will be further illustrated by problems given recently at the final examinations of the Society of Chartered Accountants of Quebec.

Lecturer..Mr. H. D. Clapperton, C.A.

MATHEMATICS

Elements of Actuarial Science.

Twenty-five lectures, of 1½ hours each, on Wednesdays, from 5.30 to 7 p.m., beginning October 3rd, 1928.

The course will embrace:—

The amortization schedule; straight-term, serial and annuity bonds; depreciation; building and loan associations; the mortality table; calculation of net and gross premiums; the reserve; valuation, with allowance for initial expense; surrender value and policy loans; surplus and dividends; industrial and group insurance.

Text-books:—Lovitt and Holtzclaw, Mathematics of Business; MacLean, Life Insurance; Knight, Life Insurance.

Lecturer..Assistant Professor Herbert Tate.

FINAL COMMERCIAL LAW

Forty-four lectures, of 1½ hours each, to be given on Tuesdays and Thursdays, from 5.30 to 7.00 p.m., beginning October 2nd, 1928. Of these lectures, 14 will be devoted to the Sale of Goods; 14 to Company Law; 8 to Trustees and Executors, and 8 to Bankruptcy and Winding-up.

The following outline will indicate the subject matter covered:—

Sale of Goods: General provisions regarding sales; capacity to buy and sell; things which may be sold; obligations of the seller; delivery; warranty against eviction and latent defects; obligations of the buyer; dissolution and annulment of contract of sale; right of redemption; annulment on account of lesion; sales by licitation; sales by auction; bulk sales; forced sales and giving in payment.

Company Law: The Companies' Act (Dominion) and its amendments; the Quebec Companies' Act, 1920, and its amendments. (In these Acts, Part 1 is principally dealt with. The statutory provisions are explained and illustrated by citation and discussion of jurisprudence.)

Trustees and Executors: Provisions of the Civil Code dealing with persons administrating funds belonging to others; status of married women; law applying to tutors and curators; law relating to succession.

Bankruptcy and Winding-up: Provisions of the Bankruptcy Act; the Dominion Winding-up Act; law of the Province of Quebec relating to the voluntary winding-up of companies. (The statutory provisions are explained and illustrated by citation and discussion of jurisprudence.)

Lecturers..Messrs. J. A. Mathewson and W. C. Nicholson.

ECONOMICS

Course of 20 lectures, of 1 hour each, on Elementary Economics. On Fridays, from 5.30 to 6.30 p.m., beginning October 5th.

Lecturer..Dr. J. P. Day.

The examinations in the above-mentioned subjects will be held at the end of the course, in the month of May. In order to pass, a student must obtain in each subject 60 per cent of the marks assigned. A student who fails may repeat the course and the examination in the following May on payment of the full fee. This is necessary in the case of any student who has obtained less than 40 per cent of the marks assigned. A student, however, who has obtained 40 per cent or more, but less than 60 per cent of the marks assigned, need only repeat the examination, paying therefor half of the fee.

In the year 1928 an additional final examination in Accountancy and Auditing and also an examination in Economics will be held in the month of November.

FINAL EXAMINATION IN ACCOUNTING AND AUDITING

With regard to the Final examination in Accounting and Auditing, this will be held in the month of May of each year, before a joint board of examiners, consisting of the six mentioned on page 14 and of two members named by each of the three Associations of the Province.

The fee for this Final examination in Accountancy and Auditing is quite apart from the fee paid for the course. In the case of McGill Commerce graduates the fee for this Final examination will be $25, to be paid to the University. In the case of students of the various Associations, the fee will also be $25, to be paid into a common fund for examination expenses. This fund will belong to the Associations and be administered by them.

In order to pass in this Final examination a student must obtain 60 per cent or more of the marks assigned.

A student who fails may, on repayment of the examination fee, present himself again for examination in the following November. If he has obtained less than 40 per cent he must also repeat the final course in Accountancy and Auditing, paying therefor the full fee.

Candidates are permitted to proceed from the Intermediate to the Final stage, if conditioned in not more than one subject, which must not be Accountancy and Auditing. For the purposes of this regulation, Law constitutes one subject and Mathematics one subject.

A candidate who fails in one or more of the divisions into which the Law curriculum is divided, should bear in mind that he has only to be re-examined in the portion or portions in which he may have failed. If he obtains less than 40 per cent in any portion or portions he must repeat the lectures in those portions, paying therefor the full fee of $30.

No student will get any credit for any course, or be allowed to sit for any examination, unless he has complied with all the regulations of his Association affecting such courses and examinations. Every student should, therefore, acquaint himself with the rules and by-laws of his Association.

All students taking either the Intermediate or the Final examinations must make formal application to Professor R. M. Sugars on or before April 1st. In making such application he should state when he took the lectures given in connection with each examination. His application should be accompanied by the corresponding fee, except in the case of Final Accountancy and Auditing. The fee for any Association candidate who wishes to present himself for the Final Accountancy and Auditing examination must be paid to the Association with which the candidate is connected.

For all further information, apply to Professor R. M. Sugars, Director of the Course.

SCHOOL OF COMMERCE
Lecture Time Table, 1927–1928

Hour	Year	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	1	Mathematics French		Mathematics		Mathematics	
	2	Accountancy	Economics	Accountancy	Economics	Accountancy	Economics
	3	Spanish		Spanish		Spanish	
	4	French	Spanish	French	Spanish	French	Spanish
10–11	1	Economics	Spanish		Spanish	Economics	Spanish
	2	Psychology	Mathematics	Psychology	Mathematics	Psychology	Mathematics
	3	French	Accountancy	French	Accountancy	French	Accountancy
	4	Economics (conf.)	Economics	Economics	Economics	Economics	Economics
11–12	1	French Mathematics	History	French Mathematics	History	French Mathematics	History
	2		Spanish		Spanish		Spanish
	3	Economics	Economics Statistics (3 & 4) 1st term	Economics	Economics Statistics (3 & 4) 1st term	Economics	Economics Statistics (3 & 4) 1st term
	4	Accountancy		Accountancy		Accountancy	
12–1	1	Accountancy	English	Accountancy	English	Accountancy	
	2	French		French		French	
	3		Mathematics				
	4			Economics		Economics	Economics (conf.)
2–3	1	Chemistry	Biology	Chemistry	Biology	Chemistry	Biology
	2						
	3						
	4						
3–4	1	Physics	Biology	Physics	Biology	Physics	Biology
	2						
	3						
4–5	1			Physics			
	2						
	3						
	4						
5.30–7		Accountancy (Final)	3 and 4 Commercial Law	Accountancy (Inter) Mathematics (Final)	3 and 4 Commercial Law; (Inter); Accountancy (Final) 7.30 to 9.00 p.m.	Mathematics (Inter.)	

FACULTY OF APPLIED SCIENCE

DEGREES, EXAMINATIONS AND SOCIETIES

1. DEGREES

The degrees conferred by the University upon such undergraduates of the Faculty as fulfil the conditions and pass the examinations hereinafter stated are "Bachelor of Architecture" (B.Arch.) and "Bachelor of Science" (B.Sc.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Science degree in one of the courses provided by the Faculty may graduate in any of the remaining courses by attending one or more subsequent sessions and passing the prescribed additional examinations.

For particulars regarding the Double Courses for the degrees of B.A. and B.Sc., and of B.A. and B.Arch., see pages 164 to 165.

PRIVILEGES OF THE HOLDERS OF THESE DEGREES

Among the privileges enjoyed by graduates in Applied Science, the following may be specially mentioned:—

(1) By a resolution of the Institution of Civil Engineers (England) the holders of the degree of B.Sc., in the courses of civil, electrical, mechanical and mining engineering, who are desirous of becoming Associate Members of the Institution, may under certain conditions be exempted from the examination prescribed for admission to the Institution.

(2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyors' certificate shortened from three years to one.

(3) The McGill School of Architecture is one of the schools recognized by the Royal Institute of British Architects, and the instruction in it meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B.Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of Professional Practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.

The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership and thereby to practice in the Province, on passing an examination in design after spending one year in the office of a member of the Association. This office experience may be gained by work during the summer vacations.

2. EXAMINATIONS

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held from time to time, at the option of the professor.

2. Students who have failed in one or more subjects of the curriculum shall (except in cases where they are called upon to repeat their year) be required to make good their standing by passing:—

(a) the regular supplemental examinations held immediately before the opening of the session, or

(b) the final examinations in a subsequent session, or

(c) special examinations, which shall be given only under exceptional circumstances and by authority of the Faculty.

3. **The pass standard in examinations in subjects in which the candidate has already failed twice is sixty per cent, and an unexcused absence from a sessional examination will be regarded as a failure in this connection.**

4. Failures in drafting and laboratory subjects may under certain conditions be made good by attendance on special classes during the late afternoons of the first two months of the following session. These classes must be completed and the results reported to the Faculty on or before December 1st.

5. No undergraduate will be allowed to take instruction in any subject until he has passed the examinations in the necessary prerequisite subjects, for particulars regarding which, see page 326.

3. ENGINEERING SOCIETIES

1. Students in all departments of engineering are strongly recommended to become student members of the Engineering Institute of Canada, which they can do on payment of a fee of $3.00. They are then entitled to the monthly journal of the Institute, and to the use of the Institute's rooms, 2050 Mansfield Street, and have a right to attend the weekly meetings.

Students are invited to compete for the prizes, which are offered by the Institute.

2. Students in Mining and Metallurgy are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body (see page 318), is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute without extra expense, and are entitled to attend all meetings and to compete for the prizes offered.

COURSES OF INSTRUCTION

The instruction in this Faculty is designed to afford a thorough training of a practical as well as theoretical nature, in the following branches of Applied Science:—

I.—Architecture.
II.—Chemical Engineering.
III.—Civil Engineering.
IV.—Electrical Engineering.
V.—Mechanical Engineering.
VI.—Metallurgical Engineering.
VII.—Mining Engineering.

Details of graduate courses are stated, following the lists of subjects given by the different departments. See also the announcement of the Faculty of Graduate Studies and Research. A course is also offered in Engineering Physics, particulars of which are given on page 272.

CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by the Faculty, and in no case shall it be binding beyond the session covered by this calendar announcement.

Four years of study are required for a degree in any branch of Engineering, and five years for the degree in Architecture.

The degree in Engineering will not be conferred upon any candidate until he has passed the prescribed examinations of his course, and has submitted satisfactory evidence to the Faculty of having had at least six or eight months of experience in practical engineering work. Similar regulations apply to the degree in Architecture, and the conditions regarding practical work are set forth under the heading of Summer Work, Course 50, on page 284. The above regulation regarding experience in practical work is applicable to students of the graduating class of 1929 and thereafter. Forms, obtainable from the Dean's Office, must be signed by the employer and returned at the opening of the session.

The work prescribed for the first two years is the same in all courses, except in that leading to the degree of Bachelor of Architecture (Course I).

The first two years of the Engineering courses (II to VII) are mainly devoted to mathematics, mechanics, physics, chemistry and drawing, as it is deemed necessary that students in these courses should master the general principles underlying scientific work before commencing the professional subjects.

In certain courses, students are required to attend Summer Schools following the completion of the work of the session in the First, Second, and Third Years. For details, see page 274.

The regular work of the session 1928-29 will begin on October 1st, 1928, and will end on May 29th, 1929.

I. ARCHITECTURE

The course for the degree of Bachelor of Architecture extends over five years. Full information is given in the Announcement of the Department, which will be sent to interested persons upon request to the Registrar of the University.

An essay on an historical or theoretical subject is required in each term from all students following the historical or theoretical courses.

In all courses studio work goes hand in hand with oral teaching, with a view to the practical application of the theory, while at the same time affording opportunity for the acquisition of power in draughtsmanship and practice in design.

FIRST YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Algebra	Arts, 1	..	3	..	..	282
Geometry	Arts, 1	2	..	..	..	282
Trigonometry	Arts, 1	3	..	..	..	282
Mechanics	194	2	2	..	..	304
Physical Education	..	..	..	⅔	⅔	320
Physics	Arts, 44	2	2	..	..	323
Physics Lab	Arts, 45	..	..	1	1	323
Elements of Architecture	5	1	1	..	..	279
Architectural Geometry I	18	1	1	1	1	284
Architectural Drawing	33	1	1	3	3	283
Freehand Drawing	38	..	..	2	2	284
*Surveying Fieldwork	347	..	..	..	..	324

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year Examinations. (See pages 274 and 324.

Any undergraduate student of the First Year in the course of Architecture who at the close of the first term has failed to obtain an average of 33 per cent in the following five subjects, viz.: mechanics, geometry, trigonometry, physics and architectural drawing, may be required to withdraw from the Faculty.

Any other student of the First or any subsequent year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year in the Department of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations or in three such subjects aggregating over 300 possible marks, shall be required to repeat the work of the First Year, and while so doing shall be debarred from taking any more advanced work.

SECOND YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design A	1	..	..	2	2	279
Elements of Composition	6	1	1	..	..	270
Building Construction	24	1	1	..	..	282
Building Details	25	..	..	2	2	282
Arch. Engineering I	26	1	1	..	..	283
Arch. Eng. (Draughting) I	27	..	..	1	1	283
History of Classic Arch	14	2	2	..	..	281
Arch. Geometry II	19	1	1	1	1	284
Surveying	346	2	2	..	..	324
Mapping	348	..	..	1	1	324
Architectural Drawing	34	..	..	1	1	283
Freehand Drawing	39	..	..	1	1	284
Physical Education	..	..	..	⅔	⅔	320
Summer Work	50	..	..	..	..	284
*Surveying Field Work	347	..	..	..	..	324
Architectural Essay	46	..	..	..	..	284

*Surveying Field Work is done in the four weeks immediately following the close of the First Year Examinations in April. In the case of students entering from other Universities, this work should be done before entering the Second Year in Summer Schools, as shown on page 274.

All students of the Second Year in the Department of Architecture who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in subjects aggregating not less than 350 possible marks, shall be required to repeat the Second Year.

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Draughting Room and other periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Design B	2	..	..	4	4	279
Theory of Design*	7	1	1	..	..	280
Arch. Engineering. II A	28	1	1	..	..	283
Arch. Eng. (Draughting), II A.	29	..	..	1	1	283
History of Mediaeval or Renaissance Arch.†	15 or 16	2	2	..	..	281
Ornament and Decoration‡	9 and 10 or 11 and 12	1	1	1	1	280
Freehand Drawing	40	..	..	2	2	284
Architectural Drawing	35	..	..	1	1	284
Architectural Essay	47	..	..	..	..	284
Summer Work and School	50	..	..	..	..	284

†The courses on Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1928-29, the History of Mediaeval Architecture will be given.

‡Ornament and Decoration, courses numbers 9 and 10, and 11 and 12, are given in alternate years. During the Session 1928-29, numbers 11 and 12 will be given.

*The courses on Theory of Design and Theory of Planning, numbers 7 and 8, will be given in alternate years.

NOTE.—In the Department of Architecture after two failures in any subject a third examination will only be granted after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see pages 275 and 276.

FOURTH YEAR

Design C	3	..	..	4	4	279
Theory of Planning*	8	1	1	..	..	280
Arch. Engineering, II B	30	1	1	..	..	283
Arch. Eng. (Draughting), II B.	31	..	..	1	1	283
History of Mediaeval or Renaissance Architecture	15 or 16	2	2	..	..	281
Ornament and Decoration	9 and 10 or 11 and 12	1	1	1	1	280
Architectural Drawing	36	..	..	1	1	284
Freehand Drawing	41	..	..	1	1	284
Modelling	42	..	..	1	1	284
Architectural Essay	48	..	..	..	..	284
Summer Work and School	50	..	..	..	..	284

FIFTH YEAR

Design D	4	..	..	7	7	279
Modern Architecture	17	2	2	..	..	282
Professional Practice	32	2	2	..	..	283
Engineering Law	175	1	1	..	..	304
Historical Drawing	37	..	..	1	1	284
Modelling	43	..	..	1	1	284
Hygiene	22	2	..	..	..	282
Heating and Ventilation	23	..	1	..	1	282
Architectural Essay	49	..	..	..	..	284
Summer Work	50	..	..	..	..	284

†The courses on Mediaeval and Renaissance Architectural History, numbers 15 and 16, are given in alternate years. During the Session 1928-29, the History of Mediaeval Architecture will be given.

‡Ornament and Decoration, courses numbers 9 and 10, and 11 and 12, are given in alternate years. During the Session 1928-29, numbers 11 and 12 will be given.

*The courses on Theory of Design and Theory of Planning, numbers 7 and 8, will be given in alternate years.

NOTE.—In the Department of Architecture after two failures in any subject a third examination will only be granted after the student concerned has taken special tuition of a character approved by the Department.

For summer reading, see pages 275 and 276.

II. ENGINEERING COURSES

The subjects of instruction in the first two years of the Engineering Courses (II to VII), and the number of hours per week devoted to each, are as follows:—

FIRST YEAR

SUBJECT	No.	Lectures per week		Laboratory, etc., Hours per week		For details see pages
		First Term	Second Term	First Term	Second Term	
Chemistry	51 & 52	2	2	3	3	285
Descriptive Geometry	341	1	1	2	2	297
Drawing—Freehand and Lettering	342 343	1	1	2	2	297
Drawing—Mechanical	340	..	..	3	3	297
Engineering Problems	80	..	..	3	3	290
History of Science	170	1	1	..	..	303
Plane Trigonometry Algebra Mensuration Mechanics	191 192 193 194	6	6	3	3	304
Physics and Laboratory	311 312	2	2	2	2	323
Physical Education	..	..	..	2	2	320
*Surveying Fieldwork	347	..	..	..	..	324
Summer Reading	132	..	..	..	..	276

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year Examinations. (See pages 274 and 324).

Any undergraduate student of the First Year, who at the close of the first term has failed to obtain an average of 33 per cent in the following six subjects:—chemistry, mechanics, plane trigonometry, algebra, physics, and descriptive geometry, may be required to withdraw from the Faculty.

Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

All students of the First Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than three subjects of the First Year, in which standing is determined by sessional examinations, or in three such subjects aggregating over 350 possible marks, shall be required to repeat the work of the First Year, and while so doing shall be debarred from taking any more advanced work.

SECOND YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., hours per week		For details see page
		First Term	Second Term	First Term	Second Term	
Chemistry	53	2	2	..	..	286
Descriptive Geometry	345	1	1	2	2	297
English	131	1	1	2	2	301
Mapping	348	..	..	3	3	324
Materials of Construction	81	..	..	..	..	290
Mathematics	197-198	5	4	..	..	304
Mechanical Drawing	340	..	..	3	3	297
Mechanics	83	2	2	2	2	291
Mechanics of Machines	218	..	1	..	2	305
Physics and Lab	315-316	2	2	2	2	323
Physical Education	..	..	..	2	2	..
Surveying	346	2	2	..	..	324
Surveying Fieldwork	347	..	..	..	..	324
Summer Essay or Reading	133	..	..	..	..	277

*Surveying Field Work is done in the four weeks immediately following the close of the First Year Examination in April (about April 29th, 1929) (see page 325). In the case of students entering from other Universities this work should be done in a Summer School before entering the Second Year (see page 274).

All Students of the Second Year who have pursued their course of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, shall be required to repeat the Second Year.

II. CHEMICAL ENGINEERING

The aim of this course is to prepare students for positions demanding a knowledge of both chemistry and engineering. The duties of a chemical engineer require him to be conversant with chemical processes and the installation of chemical units, and to understand the construction of buildings, the installation and operation of machinery, etc. Accordingly the course of study combines a considerable amount of engineering with the maximum of chemical training that can be attained without over-pressure.

Between the Second and Third Years, students taking this course must attend a Summer School of four weeks in the chemical laboratories.

In the Third Year specialization commences, the time being divided about equally between chemical and engineering studies, and in the vacation between the Third and Fourth Years all students must give at least six weeks to work in some chemical industry or to equivalent laboratory work satisfactory to the Professor of Chemistry.

In the Fourth Year the engineering studies are completed and the chemical studies which predominate are arranged in two alternative courses, as students cannot possibly study more than a few of the very varied chemical industries. These alternative courses fall broadly under one of two headings:—(*a*) inorganic, (*b*) organic, as indicated in the table below, one or other of which the student shall select. Should a student desire to prepare for an industry which requires more engineering knowledge than is provided in the regular course he may substitute additional engineering subjects for some of the chemical work. Details will be arranged on application to the Faculty through the Professor of Chemistry.

While every effort will be made to supply detailed information as to methods and plan of many of the important industries, and to provide facilities for experimentally carrying out the processes involved, the main aim will be to study the principles that underlie the application of chemistry to economical production.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 258 and 259), with additional Summer School for students entering Third Year. (See page 274.)

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Crushing and Grinding Mach	295	2	..	..	..	316
Economics	171	..	2	..	..	303
General Elem. Metall	262	2	..	..	..	311
Inorg. Quant. Anal. & Lab.	61	1	..	3	3	287
Mech. Eng. and Lab	226 and 228	2	2	1	1	306
Mineralogy	142	2	2	..	..	301
Mineral. Deter	143	..	..	2	..	302
Organic Chemistry and Lab.	56–57	3	2	..	2	286
Physical Chemistry	58	2	1	..	..	286
Strength of Materials and Lab	87–88	2	2	..	1	291
Structural Engineering	90	..	1	..	1	292
‡Summer School, Inorg. Qual. Anal. and Lab	54 and 55	..	..	..	..	286
Summer Essay or Reading	133	..	..	..	..	277

‡See page 56.

FOURTH YEAR.

Adv. Inor. Chem	72	2(a)	2(a)	..	..	290
Adv. Org. Chem. and Lab.	64–65	2(b)	2(b)	3(b)	2(b)	288
Applied Electro-Chem	70	2	..	..	..	289
*Colloid Chemistry and Lab.	75	2	2	..	1	290
Elem. of Elec. Eng. and Lab.	111–112	2	2	1	1	298
Engineering Economics	172	2	..	..	..	303
Engineering Law	175	1	1	..	..	304
Fire Assaying and Lab.	273	1(a)	..	1(a)	..	312
Food Chemistry	73	..	1(b)	..	1(b)	287
History of Chemistry	74	..	1	..	..	290
Hydraulics	100	1	..	½	..	294
Industrial Inorg. Chemistry	68	2	..	..	..	289
Industrial Organic Chem.	69	..	2	..	..	289
Inorganic Laboratory	67	1(a)	..	2(a)	3(a)	289
Metallography and Lab.	282	½(a)	..	½(a)	..	313
Phys. Chem. and Lab.	66	3	3	1	2	288
Summer Essay	134	..	..	..	..	278

*The hours required for laboratory work in this course will be taken from time assigned to subjects 65 or 67.

(a) Inorganic alternative. (b) Organic alternative.

III. CIVIL ENGINEERING

The courses of study are designed to emphasize the fundamental principles embodied in the study of mechanics, strength of materials, and hydraulics, while at the same time affording an opportunity of applying these principles to practical problems ranging over as wide a portion as possible of the field covered by the practice of civil engineers. A broad and sound foundation is thus laid for future specialization, either in graduate courses or in actual practice. The outlook of the student is further broadened by courses in Mechanical and Electrical Engineering. In the Fourth Year an alternative course is provided for students looking forward to municipal engineering or city management. In the designing courses special attention is given to the interpretation and critical discussion of specifications as well as to the economical principles involved. Students are recommended to obtain as much practical experience as possible during the summer vacation, and are specially recommended to spend at least one season in a drafting office before the final year.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 258 and 259), with additional Summer School for students entering Third Year. (See page 274.)

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	303
Foundations	89	1	1	..	1	292
Geology, General	141	3	3	⅓	⅓	301
Highway Engineering	85	..	2	..	2	293
Hydraulics and Lab	97–98	2	..	1	..	292
†Map Projections (alt.)	351	..	..	1	..	324
Mech. Eng. and Lab	226, 228	2	2	1	1	306
Mechanics	86	2	..	..	..	291
Railway Eng.	92–93	2	..	2	..	292
†Sanitary Science (alt.)	82	1	..	1	..	293
Strength of Mats, and Lab	87–88	2	2	..	1	291
Structural Eng.	90	..	1	..	1	292
Surveying	353	2	2	..	..	324
Surveying Field Work	354	..	..	..	..	324
Summer Reading or Essay	133	..	..	..	..	277

†Map Projections (351) is alternative with Sanitary Science (82).

FOURTH YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Elements of Elec. Eng. & Lab.	111–112	2	2	1	1	298
Engineering Economics	172	2	..	..	..	303
Engineering Law	175	1	1	..	..	304
Geodesy and Lab	359, 360	2	..	1	..	325
†Geodetic Fieldwork	361	..	..	..	..	325
Strength of Materials	95	2	1	..	1	293
Theory of Structures	94	1	2	1	2	293
and either						
Bridge Design	96	2	2	2	2	294
Hydraulic Machines	99	..	2	..	..	294
Municipal Engineering	101	2	2	..	1	294
or						
Bridge Design	96a	2	2	2	1	294
Civic Administration	104	1	..	..	..	295
Waste Disposal	103	1	..	..	..	295
Water Sup. and Sewerage	102	..	3	..	2	295
Summer Essay	134	..	..	..	..	278

†See page 274.

IV. ELECTRICAL ENGINEERING

The electrical courses of the Third Year cover a consideration of current flow, the principles of electro-magnetism and electrical measurements.

A course in the design and performance of electrical machinery is followed by the study of alternating currents.

The Fourth Year is devoted almost entirely to Electrical Engineering studies.

Technical courses cover the generation, transmission and distribution of electric power, and include lectures and laboratory work on direct and alternating current phenomena, the performance and design of electrical machinery, electric lighting and the various systems of power distribution and transmission. Courses are given on central station design, electrical traction systems, hydro-electric power development, electro-chemistry, electrical measurements and communication engineering.

Visits are made to electrical works and power plants.

FIRST AND SECOND YEARS

As in other Engineering Courses. (See pages 258 and 259.)

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		Fo details see page
		First Term	Second Term	First Term	Second Term	
Mathematics	201	2	..	..	..	305
Economics	171	..	2	..	..	303
Electrical Engineering	113	4	4	..	..	298
Electrical Engin. Lab.	114	..	..	4	4	298
Machine Design	225	2	2	..	..	305
Mech. Eng. and Lab.	223,226	2	2	1	1	306
Mechanics	86	2	..	..	..	291
Thermodynamics	229	2	2	..	..	306
Strength of Mats. and Lab	87, 88	2	2	..	1	291
Summer Reading or Essay	133	..	..	..	..	277
Physics	318	..	2	..	..	323

FOURTH YEAR.

Applied Electro-Chem	70	2	..	..	..	289
Electric Traction	121	..	2	..	..	299
Electrical Design & Problems	122	1	1	1	2	300
Electrical Engineering	117	4	4	..	..	299
Electrical Engineering Lab	118	..	..	3	3	299
Electrical Measurements & Lab.	124	2	..	1	1	300
Engineering Economics	172	2	..	..	..	303
Engineering Law	175	1	1	..	..	304
Summer Essay	134	..	..	..	..	278
and either						
Applications of Electricity	123	..	3	..	..	300
Elec. Light & Power Distr	120	2	..	..	..	299
Hydraulics & Lab	97, 98	2	..	1	..	292
Machine Design	243	..	2	..	..	308
or						
Applications of Electricity	123	..	3	..	..	300
Electric Light & Power Distr.	120	2	..	..	..	299
Communication Engineering	125	2	2	1	..	300
or						
Hydraulics & Lab	97, 98	2	..	1	..	292
Machine Design	243	..	2	..	..	308
Communication Engineering	125	2	2	1	..	300

V. MECHANICAL ENGINEERING

Undergraduates entering the Third Year Mechanical Engineering course may elect one of two courses; either that embracing Mechanics of Machines and advanced Thermodynamics or that embracing Accounting and Industrial Engineering.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:—

(*a*) The constructive or manufacturing side of mechanical engineering, including industrial or production engineering; (*b*) steam engineering; (*c*) gas engine and producer work; (*d*) power plant engineering; (*e*) heating and ventilation of buildings and factories; (*f*) æronautics and ærodynamics.

Courses are given during the Third and Fourth Years in mechanical engineering as applied to questions connected with power installations and prime movers. The earlier portion of this work is supplementary to the instruction given in thermodynamics, mechanics of machines and machine design, and leads up to the more advanced or technical subjects of power plant design, industrial plant design and works organization.

Students in the Department of Mechanical Engineering take work in electrical engineering during the Third Year.

Instruction in workshop practice is given in the Third and Fourth Years. This work is of a systematic nature, and is intended to prepare for, but by no means to replace, that practical experience of manufacturing operations on a commercial basis which every mechanical engineer must obtain for himself.

The course in thermodynamics deals more particularly with the theory of heat engines, and time is assigned for additional graphical and experimental work in connection with the subject.

Arrangements are made for occasional visits to power plants and manufactories of importance.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 258 and 259), with additional Summer School for students entering Third Year. (See page 274.)

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
*Accounting (alt.)	238	2	2	⅓	⅓	307
Economics	171	..	2	..	..	303
Elements of Elect. Eng. and Lab	111–112	2	2	1	1	298
Industrial Engineering	237	2	..	..	..	307
Machine Design	225	2	2	..	..	305
Mechanical Drawing	231	..	..	2	1	307
Mechanical Eng. and Lab	227, 228	3	3	1	1	306
Mechanics	86	2	..	..	..	291
*Mechanics of Machines (alt.)	224	2	2	⅓	⅓	305
Shopwork	236	..	..	1	1	307
Strength of Mats. and Lab	87, 88	2	2	..	1	291
Structural Engineering	90	..	1	..	1	292
Thermodynamics	229	2	2	..	..	306
‡Summer School	233	..	..	..	..	307
Summer Reading or Essay	133	..	..	..	..	277

*Alternative with Mechanics of Machines (224); one or other of these subjects must be taken.

‡See page 274.

FOURTH YEAR

Designing	241	..	..	1	1	308
Engineering Economics	172	2	..	..	..	303
Engineering Law (alt.)	175	1	1	..	..	304
Experimental Eng	257	1	1	..	..	308
Heat. and Vent. of Buildings	247	1	1	..	..	308
Hydraulics and Lab	97, 98	2	..	1	..	292
Hydraulic Mach	99	..	2	..	..	294
**Industrial Administration	254	..	1	..	1	309
*Industrial Engineering	253	2	2	1	1	309
**Industrial Relations	258	2	..	..	..	310
Machine Design	242	2	2	..	..	308
Power Plant Design	244	1	1	1	1	308
Mech. Eng. Lab	249	..	..	3	3	308
Mech. Eng. Lab	249a	..	..	2	2	308
Mech of Mach. (alt.)	240	2	2	⅓	⅓	307
Shopwork	252	..	..	1	1	309
*Thermodynamics	251	2	2	..	..	309
Summer Essay	134	..	..	..	..	278

*Industrial Engineering (253) alternative with Thermodynamics (251).

**Students electing the Accounting alternative (238) in the Third Year must take the two subjects in the Fourth. Mechanics of Machine (240) cannot be taken.

Students taking course (254) take course (249a) in Mech. Eng. Laboratory.

VI. METALLURGICAL ENGINEERING

This course is designed for students intending to enter metallurgical works, such as steel works, smelting or refining plants, foundries, rolling mills, etc., or the metallurgical departments of large engineering works.

The course of instruction provides: 1st, a general scientific and engineering education; 2nd, more advanced work in inorganic, physical and electro-chemistry and chemical analysis, which subjects are essential for a metallurgist; 3rd, as much mechanical, electrical and hydraulic engineering as time will permit; 4th, a course in the allied subjects of geology, ore deposits and mining; 5th, a full course of instruction in the various branches of metallurgical engineering and the closely related subjects, mineralogy, ore-dressing and fire-assaying.

Between the Second and Third Years there is a four weeks' Summer School in qualitative analysis in the Chemical Laboratory, beginning about the 1st of September.

In the Third Year instruction is given in economics, chemistry, physical chemistry, assaying, geology, mineralogy, mining, ore-dressing, metallurgy, and mechanical and structural engineering.

A Metallurgical Field School is held after the April examinations of the Third Year. In this school the students pay visits to a number of metallurgical plants under the guidance of the department and officials of the plants visited, and make a careful study of the design and operation of each.

Students are expected to obtain employment in some metallurgical works during the summer before entering the Fourth Year, and must have had experience in metallurgical work before graduation. Suitable employment can usually be obtained at the end of the Field School.

In the Fourth Year instruction is given in chemistry, electro-chemistry, electrical engineering, law, economics, hydraulics, metallurgy, electro-metallurgy, metallography, ore deposits and ore-dressing. Metallurgical designing and laboratory work form important parts of the course.

Laboratory accommodation is provided for graduate students who wish to do advanced work in some branch of metallurgy in preparation for the M.Sc. degree, and a Research Fellowship is available each year for some graduate student who shows marked ability for such work.

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 258 and 259), with additional Summer School for students entering Third Year. (See page 274.)

THIRD YEAR

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	303
Fire Assaying and Lab.	263, 264	..	1	..	2	311
Geology, General	141	3	3	½	½	301
Gen. Elem. Metall. & Lab.	261	2	..	..	1	310
Inorg. Quant. Anal. and Lab.	62	1	..	3	..	287
Mech. Eng. and Lab.	226, 228	2	2	1	1	306
Metall. Calculations	265	1	1	..	..	311
Mineralogy	142	2	2	..	..	301
Mineralogy, Determinative	143	..	..	2	..	302
Mining Engineering	291	..	2	..	..	315
Ore Dressing and Lab.	292	2	2	..	½	315
Physical Chemistry	58	2	..	..	..	286
Strength of Mats. and Lab.	87, 88	2	2	..	1	291
Structural Engineering	90	..	1	..	1	292
‡Summer School, Inorg. Qual. Anal. and Lab.	54, 55	..	..	..	..	286
Summer Reading or Essay	133	..	..	..	..	277

‡See page 56.

FOURTH YEAR

Applied Electro-Chemistry	70	2	..	..	..	289
Elem. Elec. Eng. and Lab.	111, 112	2	2	1	1	298
Electro-Metal and Lab.	275	..	2	..	1	312
Engineering Economics	172	2	..	..	..	303
†Engineering Law	175	1	1	..	..	304
General Metallurgy	271	2	2	..	..	312
Hydraulics and Lab.	100	1	..	½	..	394
Industrial Chemistry, Inorg.	68	2	..	..	..	289
Inorganic Lab.	67	1	..	3	..	289
Metallurgy, Advanced	272	2	2	..	..	312
Metallurgical Lab. and Thesis	274	..	..	..	3	312
Metallurgy Colloquium	277	..	1	..	..	313
Metal. Calcs. and Design.	278	1	..	..	2	313
†Metallurgical Analysis	279	..	1	..	1	313
Metallography and Lab.	280, 281	1	..	1	..	313
Ore-Dressing and Lab.	300, 305	2	1	1	..	316
†Ore Deposits (alt.)	148	1	4	..	..	302
*Metallurgical Field School.	267	..	..	..	..	311
Summer Essay	134	..	..	..	..	278

†Students taking Ore Deposits omit Engineering Law (175) and Metallurgical Analysis (279).

*Metallurgical Field School (267) is taken at the end of the Third Year. See page 311.

For Summer Schools, see pages 274 and 311.

VII. MINING ENGINEERING

The work of the Third Year is largely in general engineering subjects such as applied mechanics, electrical engineering, mechanical engineering, geology, mineralogy and surveying, but courses of special interest to Mining Engineers are introduced in ore-dressing and elementary mining and metallurgy.

The Fourth Year, on the other hand, is very largely given up to technical work in mining, ore-dressing, economic geology and metallurgy, and includes the equivalent of nearly three full days per week in the laboratories and drafting room of the mining department. In the second term each student is required to prepare a thesis giving the result of an extended individual experimental investigation.

A Field School in mining, ore-dressing and geology is held between the Third and Fourth Years, the work ordinarily beginning immediately after the close of the April examination. The students spend at least three months in actual mining work and during this time are visited by members of the staff and given instruction in the geology, mining, ore-dressing and metallurgy of the district. Local mines and plants are critically studied and, whenever possible, the students are taken on trips to nearby districts. As far as conditions permit Second Year students who intend to enter the mining course will be given the benefit of participation in this summer school.

Facilities are also afforded to graduate students who wish to do advanced work in mining or ore-dressing, and the Department possesses three endowed research fellowships open to graduates who show exceptional ability. (See page 130.)

FIRST AND SECOND YEARS

As in other Engineering Courses (see pages 258 and 259), with additional Summer School for students entering Third Year. (See page 274.)

THIRD YEAR.

SUBJECT	Subject Number	Lectures per week		Laboratory, etc., periods per week		For details see page
		First Term	Second Term	First Term	Second Term	
Economics	171	..	2	..	..	303
Fire Assaying and Lab.	263, 264	..	1	..	2	311
Geology, General	141	3	3	⅓	⅓	301
Inorg. Qual. Anal. and Lab.	59, 60	1	..	2	..	287
....	....	..	..	..	..	..
Mech. Eng. and Lab.	226, 228	2	2	1	1	306
Gen. Element. Metall.	262	2	..	..	..	311
Mineralogy	142	2	2	..	..	301
Mineralogy, Determinative.	143	..	..	2	..	302
Mining Engineering	291	..	2	..	..	315
Ore Dressing	292	2	2	..	..	315
Strength of Mats. and Lab.	87, 88	2	2	..	1	291
Structural Engineering	90	..	1	..	1	292
Surveying	352	1	1	..	..	324
‡Surveying Field Work	354	..	..	..	..	324
Summer Reading or Essay	133	..	..	..	..	277
Elect. Engineering	111, 112	2	2	1	1	298

‡See page 274.

FOURTH YEAR.

Mine Design	298	..	..	..	2	316
Engineering Economics	172	2	..	..	..	303
Engineering Law (alt.)	175	1	1	..	..	304
Geology of Canada	149	1	..	..	..	302
Hydraulics	100	1	..	½	..	294
‡Inorg. Quantitative Anal.	71	1	..	4	..	289
Metallurgy, General	271, 284	2	2	..	1	312
Metallurgical Cal.	283	1	1	..	..	313
Mining Engineering	297	3	3	..	..	316
Mining Colloquium	301	..	1	..	..	316
Ore Dep. and Econ. Geol.	148	1	4	..	..	302
Ore-Dressing and Milling	300	2	1	..	..	316
Ore-Dress., Lab. and Thesis.	305, 306	..	..	1½	3	316
Petrography and Lab.	146, 147	1	..	1	1	302
Mining Field School	294	..	..	..	..	318
Summer Essay	134	..	..	..	..	278
Mine Mapping	293	..	..	1	..	316

‡The lecture hour assigned to this subject is taken from one of the afternoon laboratory periods.

NOTE.—Surveying Field work, between the Second and Third Years. See pages 274 and 324.

Mining Field School at end of Third Year. See page 318.

COURSE IN ENGINEERING PHYSICS

There is an increasing demand for men with an advanced knowledge of mathematics and physics who are capable of conducting investigations of a research character. With a suitable training, openings in this field of work may be found in research laboratories of the Government and of electric corporations, in consulting work and in University appointments.

In view of these facts a course in Engineering Physics leading to the Degree of B.Sc. in Arts has been arranged, and is open to capable students in Arts or Applied Science. A student who has completed his Second Year in the Faculty of Applied Science and has received first or second class rank in mathematics and physics may join the course in Engineering Physics, as outlined below, subject to the approval of the Heads of the Departments of Electrical Engineering and Physics.

Third Year

Mathematics 5, 6.
Physics 5A, 5B, 6B (*or* 8B).
Electrical Engineering 113, 114.

During the summer at the end of the Second Year, students are advised to spend three months at an approved shop, radio, or research station.

Fourth Year

Mathematics 10 *or* 11.
Physics 6A, 7A, 8A and 8B (*or* 6B).
Summer Thesis or Shop Work.

The student may now receive the degree of B.Sc. (Arts), with honours in Mathematics and Physics. In the Fifth Year the student should take selected subjects from the Fourth Year course in Electrical Engineering, as shown on page 81 and also Physics 9 and 10, and one of 11, 12, 13, 14, 17, as shown in the Arts Announcement, and proceed with research work and a thesis with a view to an M.Sc. degree.

The course therefore requires five years and may require six. During the last year (the sixth), opportunity may sometimes be afforded to act as demonstrator with a salary.

Students who have passed the courses of the first two years of the Faculty of Applied Science as stated above and have obtained also the degree of B.Sc. (Arts) in Engineering Physics as outlined, may proceed in a fifth year to the degree of B.Sc. in Electrical Engineering in the Faculty of Applied Science, provided that they have completed the following courses in that Faculty:—

Communication Engineering (125 [or as alternative Electric Light and Power Distribution (120) and Applications of Electricity (123)], together with Nos. (87), (88), (97), (98), (117), (118), (122), (223), (225), (226).

These courses may be spread over more than one session, and application to proceed to the degree in the Faculty of Applied Science should be made to the Dean not later than the end of the Third Year course in Engineering Physics so that suitable arrangements may be made.

SUMMER SCHOOLS

Undergraduates are required to attend Summer Schools as specified below. These are usually held immediately after the regular April sessional examinations, and the work is set forth in detail under the subject numbers referred to.

Except as noted, classes are expected to begin on or about April 29th and close about May 25th.

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture	347	324	†50	284	†50	284
Chemical Engineering	347	324	*54, 55	286	...	...
Civil Engineering	347	324	354	324	361	325
Elect. Engineering	347	324	...	...	...	...
Mechanical Engineering	347	324	*233	307	...	...
Metallurgical Engineering	347	324	*54, 55	286	267	311
Mining Engineering	347	324	354	324	294	318

†This school will be held in September, 1928, and will last a little over two weeks. Particulars as to dates, etc., must be obtained from the Head of the Department.

*These Schools commence on Sept. 4th. extend over a period of four weeks, and are held with the Special Summer Schools. See pars. (b) and (c) below.

NOTE.—SPECIAL SUMMER SCHOOLS.

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that, except as noted in the table above, they apply only to students who have not previously been in attendance in the Faculty of Applied Science.

(a) Students entering the Second Year are required to attend a special Summer School in Surveying which extends from September 17th to 29th, inclusive, preceding the work of the Session. Additional work may be required in the following year, if necessary to cover the course.

(b) Students entering the Third Year of the courses in Chemical Engineering and Metallurgical Engineering are required to attend a Special Summer School in Chemistry which extends over a period of four weeks commencing Sept. 4th.

(c) Students entering the Third Year of the course in Mechanical Engineering will be required to attend a Summer School in Mechanical Drawing and Machine Shop-work extending over a period of four weeks, commencing Sept. 4th.

(d) Students entering the Third Year in the courses in Civil and Mining Engineering are required to attend a Special Summer School in Surveying from September 10th to 22nd, inclusive, and in these courses further work in Surveying, to be specified by the Head of the Department, is required for a portion of the month of May following.

(e) Students entering the Third Year in the course in Electrical Engineering are required to submit evidence satisfactory to the Head of the Department, that they have been employed for a time, at least equivalent to one month of steady employment, in a first-class electrical shop during the vacation preceding their entrance into the Third Year.

(f) Students entering the Third Year or any subsequent year in the course in Architecture must submit evidence satisfactory to the Head of the Department that they have done work fully equivalent to that of the regular scheduled Summer Schools.

(g) Students entering the Fourth Year in the courses in Mining and Metallurgical Engineering are required to submit evidence that they have had practical experience in mining and metallurgical work at least equivalent in extent to the work done in the regular Summer Schools in these courses and should by correspondence in the preceding spring secure the approval of the Head of the Department concerned of the work which they propose to offer in place of the regular summer work.

SUMMER WORK, SUMMER ESSAYS AND SUMMER READING

Students in Engineering are required to submit to the Faculty evidence of having had at least six to eight months of experience in practical engineering work before receiving their degree. Evidence of such employment must be submitted on forms obtainable at the Dean's Office, to be signed by the employer and handed in at the office at the opening of the session.

A similar regulation applies to students in Architecture, who must have had from eight to ten months of practical experience before receiving their degree. This experience must include work in an architect's office.

The requirements regarding summer essays, summer reading, or other prescribed work are given below.

GENERAL REQUIREMENTS

Essays are regarded by the Faculty as a very important part of the curriculum and a high standard will be exacted. They will be judged by their subject matter, literary style, and the evidence which they show of thoughtful and careful preparation.

The most acceptable subject for an essay is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific, or industrial work with which he is familiar will be accepted. Students who secure summer engagements in engineering work should take advantage of every opportunity to gather material suitable for an essay.

No essay compiled from books alone will be accepted unless the student has obtained in advance the written approval of the head of his department as to the subject to be treated. Information obtained from books and other sources may, however, be used or even quoted verbatim, provided full acknowledgment be made and all quotations enclosed in quotation marks. Similarly, drawings, blue prints, etc., may be included in the essay, provided full acknowledgment is made.

The student should make acknowledgment of information or drawings regarding matters which have not come within his personal experience, by means of a letter attached to the essay.

Essays should be from 2,000 to 5,000 words in length in ordinary cases. They should be illustrated by drawings, sketches, and when desirable by photographs, specimens, etc., and must be written on paper of substantial quality and of a size approximately 8½ x 11 inches.

All essays will become the property of the department concerned and will be filed for reference. Students are, however, permitted to submit duplicate copies of their essays to the Engineering Institute of Canada, or to the Canadian Institute of Mining and Metallurgy, in competition for students' prizes offered by these Institutes.

STUDENTS IN ARCHITECTURE

During each summer vacation all students are required either to work for five weeks in the office of an architect or contractor, or prepare thirty-five reasonably large freehand sketches in any desired medium.

In addition, students entering the various years are required to fulfil the following requirements:—

Second Year

Read and pass an examination on "Ancient Times"—J. H. Breasted (Ginn and Co., New York).

Third and Fourth Years

Read and pass an examination on the following books, or submit an essay on a subject approved by the Head of the Department:—"A History of Everyday Things in England," Part I—Quennell (B. T. Batsford, London); "Memoirs of the Crusades," Villehardouin and de Joinville (Everyman's Library, Dent, London).

Fifth Year

Read and pass an examination on the following books, or submit an essay on a subject approved by the Head of the Department:—

"Seven Lamps of Architecture," Ruskin (Everyman's Library, No. 207), "William Morris—His Work and Influence," A. Clutton Brock, No. 89, Home University Series (Williams & Norgate, London).

Examinations in Summer Reading will be held on the opening day of the session, October 1st. Essays must be handed in at the Dean's Office not later than 5 p.m. on Wednesday, October 10th. Details regarding the length and form of essays are given above. The number of marks assigned to the reading course and to the essay is the same.

STUDENTS IN ENGINEERING

Second Year

132. Students entering the Second Year must either read and pass an examination on not less than four of the following books, or submit an essay on engineering work in which they have been engaged.

Macaulay—Essays on Hampden, Walpole, Pitt, Chatham and Hastings.
No. 225, Everyman's Library. (55c.)

Strachey—"Eminent Victorians."
Chatto & Windus. ($2.25.)

Farrand—"The Development of the United States."
Houghton Mifflin Company. ($2.00.)

Parkman—"LaSalle and the Discovery of the Great West."
Little, Brown & Co. (1 Vol. $2.00.)

Kipling—"Captains Courageous."
Doubleday, Page & Co. ($2.00.)

George Eliot—"The Mill on the Floss."
No. 325, Everyman's Library. (55c.)

Bennett—"Old Wives' Tales."
Hodder & Stoughton, or Doran. ($2.00.)

Conrad—"Typhoon." Heineman. (60c.)

The essay, which should be approximately 2,000 words in length, must be illustrated and conform to the requirements for essays stated above.

Third Year

133. Students entering the Third Year must either read and pass an examination on one of the following books, or submit an essay preferably on engineering work in which they have been engaged. "Economic Development of Modern Europe"—Ogg ($3.50, Macmillan) or "The Nature of the World and of Man"—chapters 1-7 inclusive, and 12-14 inclusive. ($5.00, Macmillan).

Essays must conform to the requirements stated above except that they may be somewhat shorter, but not less than 2,000 words in length.

Students in Electrical or Mechanical Engineering who elect to write an essay, but are not engaged during the summer on engineering, scientific or industrial work which would be a suitable subject for an essay may write on one of the following subjects:—

Electrical Engineering students.—"The application of electric power to industrial establishments."

Mechanical Engineering students.—(1) Powdered fuel for power production. (2) Pulp and paper manufacture. (3) Heavy oil engines.

Students in Mining Engineering, or Metallurgical Engineering who are unable to write on engineering work of which they have personal knowledge must take the summer reading.

Fourth Year

134. Students entering the Fourth Year are required to submit an essay, preferably on engineering work in which they have been engaged. Students in Electrical or Mechanical Engineering who are not engaged in work affording material suitable for an essay, may write on one of the following subjects:—

Electrical Engineering students. (1) Generation of electric power; (2) Long distance power transmission; (3) Distribution of electric power; (4) Electrification of railways.

Mechanical Engineering students. (1) power costs; (2) central station heating; (3) methods of increasing production in manufacturing; (4) exhaust steam turbines using steam at pressures below atmospheric.

Essays must conform in all respects to the requirements stated above.

Examinations in Summer Reading will be held on the opening day of the session, October 1st. Essays must be handed in at the Dean's Office not later than 5 p.m. on Wednesday, October 10th. The number marks assigned to the reading course and to the essay is the same.

SUBJECTS OF INSTRUCTION

The following courses are subject to such modification during the year as the Faculty may deem advisable.

DEPARTMENT OF ARCHITECTURE

PROFESSORS:— { RAMSAY TRAQUAIR (in charge of Department).
PERCY E. NOBBS (in charge of Design).

ASSISTANT PROFESSOR:—W. E. CARLESS.

SPECIAL INSTRUCTOR:—E. DYONNET.

SPECIAL LECTURERS:— { LESSLIE R. THOMSON.
P. J. TURNER.

A.—Design

The course in Design is divided into four classes (A, B, C and D), intended to be taken in the Second, Third, Fourth and Fifth Years respectively. Advanced or backward students may be allotted to design classes to suit their individual requirements irrespective of their standing in other subjects, but good standing in Class D must be obtained prior to receiving the degree.

1. CLASS A. Simple problems in composition of a monumental nature, not involving difficulties of plan.

2. CLASS B. The design of domestic and small public buildings.

3. CLASS C. The design of public buildings.

4. CLASS D. Problems involving the plan, structure and lay-out of complex buildings and groups of buildings. The diploma design for graduation is done in the second term.—Professor Nobbs.

B.—Aesthetic

The theoretical courses are intended to develop a sense of critical judgment in the student, emphasizing the fundamental principles of composition and design.

5. THE ELEMENTS OF ARCHITECTURE (24 lectures).

The five orders of Vignola, pedestals, pediments, intercolumniation and superposition of orders, arches, vaults, domes, roofs, openings, etc. —Mr. Carless.

6. THE ELEMENTS OF COMPOSITION (24 lectures).

Analogies in the arts; principles of composition, mass unity, balance, character, scale, proportion; symmetric and asymmetric grouping; vertical and horizontal treatments; composition in plan, natural and axial; appreciation of intrinsic qualities of materials, value of textures, etc. —Mr. Carless.

7. THEORY OF DESIGN (24 lectures).

(*a*) *Principles of Aesthetic:*—The history of æsthetic enquiry, perception, emotion, pleasure, pain and expression; the art impulse; beauty defined; the work of art; subject, emotional content and medium; the criteria.

(*b*) *Application of Aesthetic:*—Pure design; the function of ornament, "motif," the material treatment, the placing and classifications of ornament; the evolution of functional forms, analysis of conventional forms; the use of scale and proportion; corrections and refinements.

Students will read selected passages from the works of Santayana, Yrjö Hirn, Croce, Marshall, Geoffrey Scott, Baldwin Brown and Blomfield, etc.—Professor Nobbs.

8. THEORY OF PLANNING (24 lectures).

(*a*) *Elements of Planning:*—Dimensions, arrangements, scales, aspect, prospect, light, the structural bay, unit planning, axial planning.

(*b*) *Domestic Planning:*—Stables, cottages, housing, residences; country houses and gardens; apartment houses.

(*c*) *Public Buildings:*—Churches, halls, theatres, schools, libraries, hospitals, baths, fire stations, municipal buildings, etc.

Note:—The examples studied are selected from current architecture —Prof. Nobbs.

Courses 7 and 8 will be taken in alternate years until further notice.

9, 10, 11 and 12. ORNAMENT AND DECORATION (48 lectures and 48 drafting periods extending through two years).

9. DECORATIVE HERALDRY. The place of heraldry in the arts; the laws of heraldry, heraldic art of different periods; modern practice and tendencies; symbolism and significant ornament.—Professor Traquair.

Text-book:—Decorative Heraldry, Eve. *Reference:*—The Art of Heraldry, Fox Davies.

10. ORNAMENT IN FORM. The design of plaster work, terra cotta, stone carving, architectural sculpture, wood carving and furniture is dealt with as the evolution of form in distinctive materials, influenced incidentally by the prevailing taste of different periods.—Prof. Traquair.

Reference Books:—Plastering, Plain and Decorative, Millar; The Art of the Plaster, Bankart; Mediæval Figure Sculpture in England, Prior.

11. Metal Work. The design of wrought and cast iron, bronze, copper, brass, pewter, silver, gold and jewellery is dealt with historically and as the result of the methods of workmanship.—Professor Traquair.

Reference Books:—English and Scottish Wrought Iron Work, Murphy; Ironwork, Starkie Gardner; Leadwork, Lethaby.

12. Color Decoration. Stained glass, mosaic of various kinds, inlays, the use of colored materials in external and internal design, mural decoration, and the analysis and construction of pattern.—Professor Traquair.

Reference Books:—Vitraux, Merson; Windows, Day.

Courses 9 and 10 and 11 and 12 will be taken in alternate years.

C.—History

14. Ancient and Classical Architecture (48 lectures).

The architecture of the ancient Egyptians, Chaldæans, Assyrians and Persians; the Minoan civilization; architecture of the Dorian and Ionian Greeks, with special attention to the refinement of form in Hellenic art; the architecture of Rome and Byzantium to the fall of the Byzantine Empire.—Professor Traquair.

Text-books:—Banister Fletcher's History of Architecture; Anderson and Spiers' Architecture of Ancient Greece; Anderson and Spiers' Architecture of Ancient Rome.

15. Mediæval Architecture (48 lectures).

The rise of the Romanesque schools, from the decline of the Western Roman Empire to the XI century; the evolution of ecclesiastical architecture in France and England to 1500 A.D.; the Gothic schools of Europe and the evolution of military and civil architecture. —Professor Traquair.

Text-book:—Power's Mediæval Architecture.

16. Renaissance Architecture (48 lectures).

The beginning of the Renaissance in Italy and its influence on architecture from 1400 A.D. to 1600 A.D.; the Renaissance in France from Francis I. to the Revolution; the earlier and later phases of the Renaissance in England and English architecture during the XVIII century.—Professor Traquair.

Text-books:—Anderson's Italian Renaissance Architecture; W. H. Ward's French Renaissance Architecture; R. Blomfield's Short History of Renaissance Architecture in England.

17. Modern Architecture (48 lectures).

The end of the Renaissance and the classic revival in England; scholarly architecture; the "Gothic Revival"; the influence of Pugin, Ruskin and Morris; the "Arts and Crafts" movement; the eclectic schools; Shaw and the free classicists; the progress of art in Europe during the XIX century; the classic schools and "official" architecture; the neo-grec movement in France; the national revivals, the secession and art nouveau; the colonial architecture of North America, Spanish, French and English; the colonial architecture of Canada; the modern schools and the present position.—Professor Traquair.

D.—Science

Mathematics—Geometry and Trigonometry, first term; Algebra, second term; to be taken in First Year Arts. For full particulars, see page 194. Mechanics (194). (See page 304.)

44 and 45. Physics and Laboratory (48 lectures and 24 laboratory periods).

The instruction includes a fully illustrated course of experimental lectures on the general principles of physics, embracing the laws of energy, heat, light, electricity and sound. Dr. Eve.

346, 347 and 348. Surveying. (Full course: 4 weeks field school, 48 lectures and 24 draughting periods, see page 324.)

22 and 23. Hygiene of Buildings (24 lectures in first term, 12 lectures and working out of one graphical problem in second term).

22. Light and air, water, sanitary plumbing, sewage disposal. First term.—Dr. Starkey.

23. The heating and ventilation of buildings. Second term.—Professor McKergow.

E.—Construction

The Second Year work covers the ordinary building trades and detailing where calculations of a complicated kind are not involved. The Third Year work deals with structural problems involving calculation, while in the Fourth Year problems in structural design are worked out.

24 and 25. Building Construction and Building Detail (24 lectures, 48 draughting periods).

Building materials, brickwork, masonry, carpentry, roofing, etc.; joinery of doors, windows, etc., and the finishing trades, such as plastering, painting and plumbing; underpinning, shoring, centering and forms. General working drawings are prepared, and building works in progress are visited.—Mr. Turner.

26 and 27. ARCHITECTURAL ENGINEERING I AND ARCHITECTURAL ENGINEERING (Draughting) I (24 lectures and 48 draughting periods). Graphical methods of calculating and the strength of materials employed in construction.—Mr. Thomson.

28 and 29. ARCHITECTURAL ENGINEERING II A AND ARCHITECTURAL ENGINEERING (Draughting) II A (24 lectures and 48 draughting periods).

Theory and practice of reinforced concrete; foundations and retaining walls.—Mr. Thomson.

30 and 31. ARCHITECTURAL ENGINEERING II B AND ARCHITECTURAL ENGINEERING (Draughting) II B (24 lectures and 48 draughting periods).

Rivets and riveting, symmetrical and eccentric connections; the design of structural steel, with examples of floors, columns, beams, office buildings and plate girders; the theory of arch action with especial reference to examples in masonry.—Mr. Thomson.

Architectural Engineering II A, with Architectural Engineering II B, with the draughting periods allotted to each, will be taken until further notice by the Third and Fourth Years together, and are given in alternate years.

F.—Architectural Practice

131. ENGLISH COMPOSITION (24 lectures with exercises).

Instruction is provided with the Applied Science Second Year classes. —Professor ————————.

32. PROFESSIONAL PRACTICE (24 lectures with exercises).

Structure of specifications and general clauses; specifications for all trades; conditions of contract; agreement; building by-laws; estimates; reports; professional ethics.—Mr. Turner.

175. ENGINEERING LAW (24 lectures).

Instruction is provided with the Applied Science Fourth Year classes. (See page 304.)

G.—Drawing

33, 34, 35 and 36, ARCHITECTURAL DRAWING (100 periods of three and four hours).

The work in this course is in direct connection with the lectures in History and Architecture.

33. Drawings of the Classic orders, showing their application to other elements in architectural design, are prepared from the large models in the museum and from documents.—Mr. Carless.

34. Drawings of the Greek orders are prepared with special reference to their structural development and design. Classic buildings are studied from documents in connection with the lectures on Classic Architecture.—Professor Traquair.

35. In connection with the lectures on Mediæval Architecture, sketch plans, elevations and details of important mediæval buildings are set up from documents.—Professor Traquair.

36. In connection with the lectures on the Architecture of the Renaissance, important buildings are studied by drawing and sketching. —Professor Traquair.

37. Historical Drawing. The advance study of one or more historical buildings by means of large scale drawings.—Prof. Traquair.

38, 39, 40, 41. Freehand Drawing (100 periods).

Drawing in pencil or charcoal from casts of architectural ornament, architectural fragments and parts of the figure.—Mr. Dyonnet.

18. Architectural Geometry I (24 lectures and 24 periods).

Descriptive geometry; isometric and axometric projection; shades and shadows; developed surfaces and intersection of solids.—Mr. Carless.

19. Architectural Geometry II (24 lectures and 24 periods).

The practical application of descriptive geometry to masonry and joinery; perspective; the rendering of perspective drawings.—Mr. Carless.

42 and 43. Modelling (one period a week of two hours, extended over the Fourth and Fifth Years).

The student first studies form directly from nature, and later on conventionalizes the forms with which he has become familiar for decorative purposes. The Architectural museum affords many examples from different periods of the adaptation and abstraction of natural motifs in ornament. They are used to show the spirit in which to work out ornament, and are not copied directly. Models of design on which the students are engaged are also prepared, and casting is taught—Mr. Dyonnet.

46, 47, 48, 49. An essay on an historical or theoretical subject is required each year from all students excepting those of the First Year. This essay is to be prepared during the session.

50. Summer Work.

A, B & C. During the vacation following the close of the First, Second, Third and Fourth Years, the students in Architecture are required to read and be prepared to pass an examination on a selected

theoretical, æsthetical, or historical architectural work. Every student must, before he receives his degree, have had at least eight to ten months' experience in an architect's or contractor's office satisfactory to the Faculty. The regulations of the Royal Institute of British architects require that a candidate for the special examination shall have had at least twelve months' experience in an architect's office and graduates in Architecture will not be admitted to this examination until they have fulfilled the requirement.

A summer school in surveying is taken in the four weeks following the final examinations of the First Year.

D. & E. A summer school in sketching and measuring is attended by all students between the Second and Third and between the Third and Fourth Years, in the latter part of September, for the study of buildings in Canada and in the United States.

For summer reading, see pages 275 and 276.

DEPARTMENT OF CHEMISTRY

DIRECTOR:— ————————.

PROFESSOR OF INORGANIC CHEMISTRY:—F. M. G. JOHNSON.

PROFESSOR OF PHYSICAL CHEMISTRY:—OTTO MAASS.

PROFESSOR OF ORGANIC CHEMISTRY:—G. S. WHITBY.

PROFESSOR OF INDUSTRIAL AND CELLULOSE CHEMISTRY:—HAROLD HIBBERT.

ASSOCIATE PROFESSOR:—NEVIL NORTON EVANS.

ASSISTANT PROFESSORS:—
- W. H. HATCHER.
- A. R. M. MCLEAN.

DEMONSTRATORS:—
- K. S. BUXTON.
- A. CAMBRON.
- R. N. CROZIER.
- W. GALLAY.
- M. KATZ.
- W. H. MUELLER.
- E. MULES.
- J. B. PHILLIPS.
- F. J. TOOLE.
- H. R. WYMAN.

First Year Lectures.

51. GENERAL CHEMISTRY. The course includes the history, occurrence, methods of preparation and the properties of the non-metallic elements and their important compounds, with their domestic and industrial applications; classification; general laws and principles and the

fundamental theories of the science; with a brief discussion of the scientific method. Two lectures a week for all Engineering students.—Professor Evans.

Text-book:—McPherson and Henderson, Introductory College Course.

First Year Laboratory.

52. General Chemistry Laboratory. Practical work designed to accompany and illustrate the lectures of course 51. The course includes the construction and use of ordinary apparatus, the preparation and study of important elements and compounds, qualitative analysis, and simple quantitative determinations, both gravimetric and volumetric, including combining weights, standardization of solutions, hardness of water, etc. One period a week for all students of Engineering.—Professor Evans and Messrs. J. E. Phillips, W. Gallay and E. Mules.

Second Year Lectures.

53. General Chemistry. The course is a continuation of that given in the First Year (51). It is based on the Periodic Classification of the elements and includes a study of the more important metals and their compounds, brief outlines of metallurgical processes and other industrial chemical processes, with special reference to the application of chemistry in the various branches of engineering. Two hours a week for all students in Engineering.—Professor Evans.

Text-book:—McPherson & Henderson, Introductory College Course.

Third Year Lectures.

54. Inorganic Qualitative Analysis. A course dealing with the principles of analytical chemistry—nature of solutions, precipitations, etc., explanatory of the work done in the laboratory (course 55). Ten lectures a week for the first three weeks of the Summer School. (See page 56.)—Professor Evans.

Text-book:—N. N. Evans, Notes on the Theory of Qualitative Analysis. *Reference:*—Stieglitz, Qualitative Chemical Analysis.

56. Organic Chemistry. (Arts 2.) A course in general elementry organic chemistry. Three lectures a week during the first term and two during the second term.

Text-book:—Hollemann, Organic Chemistry *or* Remsen's Organic Chemistry.

58. Physical Chemistry. (Arts 4.) An introductory course following the development of chemical theory, including vapour densities, molecular weights, the mass law and the phase rule.

Two lectures a week during the first term and one per week in second term.—Dr. Maass.

Text-book:—Theoretical and Physical Chemistry, Taylor.

59. Inorganic Qualitative Analysis. A course explanatory of the work done in the laboratory. One lecture a week in the first term for Mining Engineers only.—Professor Evans.

Text-book:—N. N. Evans, Notes on the Theory of Qualitative Analysis.

61. Inorganic Quantitative Analysis and Laboratory. A course on the general principles involved in quantitative analysis. One lecture a week during the first term and three laboratory periods a week throughout the year for Chemical Engineering students.—Dr. Johnson and Mr. F. J. Toole.

Text-book:—Cumming and Kay, Quantitative Analysis.

62. Inorganic Quantitative Analysis and Laboratory. A course on the general principles involved in quantitative analysis. One lecture and three laboratory periods during the first term for Metallurgical Engineering students.—Dr. Johnson and Mr. F. J. Toole.

Text-book:—Lord and Demorest, Metallurgical Analysis.

Third Year Laboratory.

55. Inorganic Qualitative Analysis Laboratory.

A course of laboratory work, including preliminary experiments on known substances, the examination of unknown mixtures for base and acid radicals, methods of bringing substances into solution, and a study of the chemical reactions involved in these processes. Four weeks in the Summer School for students of the Chemical and Metallurgical Engineering courses. (See page 56.)—Professor Evans and Mr. F. J. Toole.

Text-book:—W. A. Noyes, Qualitative Analysis.

57. Organic Chemistry. (Arts 2.) A course on the preparation, detection and analysis of the commoner organic compounds. Two periods a week, in the second term.—Drs. McLean and Whitby, with Messrs. K. S. Buxton, A. Cambron and E. Mules.

Text-book:—Price and Twist, Practical Organic Chemistry.

60. Inorganic Qualitative Analysis. A course adapted to the requirements of Mining Engineers. Two periods a week in the first term.—Professor Evans with Mr. A. Cambron.

Text-book:—W. A. Noyes, Qualitative Analysis.

Fourth Year Lectures and Laboratory.

73. Food Chemistry. (Arts 13.) A course on the constitution and analysis of proteins, carbohydrates, fats and allied substances. The

course also includes the estimation of food values, enzyme action. A course of one lecture per week and two laboratory periods during the second term. The laboratory work comprises the study of typical foodstuffs, enzyme action and includes the use of the calorimeter, polariscope and refractometer in organic analysis.—Dr. Whitby, Dr. MacLean, Messrs. A. Cambron and W. Gallay.

Text-book:—Woodman's Food Analysis.

*64. Advanced Organic Chemistry. (Arts 5.) The lectures will deal with the more complicated classes of carbon compounds, such as the carbohydrates, terpenes and alkaloids; the more complicated types of reaction, such as the Grignard reaction, the Claisen reaction, the reaction of aliphatic and hydroaromatic diketones; various theoretical conceptions, such as geometrical isomerism, partial valency, the strain theory; the main classes of aromatic compounds and dye stuffs. Two lectures per week.—Dr. Whitby.

Text-books:—Holleman's Organic and Bernthen's Organic Chemistry. *For reference:*—Recent Advances in Organic Chemistry, Stewart; Advanced Organic Chemistry, Cohen; Organic Chemistry of Nitrogen, Sidgewick.

*65. Advanced Organic Laboratory. (Arts 5.) The course will comprise the preparation of a number of representative organic compounds of a more complicated nature than those prepared in the Third Year, including dyes, nitro derivatives and examples of reaction, such as Perkin's, Fridel and Craft's, Skraup's and Grignard's. It will also comprise the quantitative determination of the elements and of typical groups in organic compounds; and also the identification of unknown organic substances. Four periods a week in the first term and two in the second.—Dr. Whitby, and Messrs. W. Gallay and A. Cambron.

The student is required during this course to take a complete course in gas analysis under Dr. Johnson.

*66. Physical Chemistry. (Arts 7.) Two lectures a week on general physical chemistry, including the kinetic theory, thermochemistry, electron theory in chemistry, chemistry of radioactive substances, etc.

Students will be required to work problems dealing with the subject matter of the lectures.

Two laboratory periods a week in the second term are devoted to typical physico-chemical measurements and methods of analysis.—Dr. Maass and ————————.

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* Subjects marked with a star are open to graduates as well as undergraduates.

Text-books:—Taylor, Treatise on Physical Chemistry; Findlay's Practical Physical Chemistry.

For reference:—Ramsay's Text-books of Physical Chemistry; Lewis and Randall, Thermo-dynamics.

*67. Inorganic Laboratory. (Arts 8.) The lectures deal with the special methods of analysis of iron and steel, alloys and water. One lecture and three periods a week in the first term and four periods in the second.—Dr. Johnson and Mr. F. J. Toole.

The laboratory work is a continuation of courses 61 and 62. A course in gas analysis is given in the second term, as well as studies in colloid chemistry and some advanced inorganic preparations.

For reference:—Lord and Demorest, Quantitative Analysis; Treadwell's Quantitative Analysis; Blair, Chemical Analysis of Iron; Ibbotson, Analysis of Steel Works Materials.

68. Industrial Chemistry, Inorganic. (Arts 13.) A course, both theoretical and descriptive, on the more important inorganic chemical industries. Two lectures per week in the first term. Special lectures are given in this course by chemical engineers from outside the University.—Dr. Harold Hibbert.

69. Industrial Chemistry, Organic. (Arts 14.) This course is given during the second half of the session, and includes the chemistry of paper and pulp, sugar, starch and glucose, soap and fats, distillation of wood and the purification of the products, etc. Two lectures per week in the second term. This course consists of special lectures by chemical engineers from the city and district who are experts in one or other of the industries, together with members of the staff.—Dr. Harold Hibbert.

70. Applied Electro-Chemistry. (Arts 12.) The laws of electrolysis and of solutions are studied from the standpoint of the osmotic theory. Primary and secondary batteries, electro-plating, polarization and the preparation and electro-chemical behaviour of the rarer elements used in incandescent lamps are discussed. The more important technical processes are studied and typical substances prepared in the laboratory. Two lectures in the first term.—Dr. Maass.

For reference:—Allmond, Applied Electro-chemistry; Blount, Practical Electro-chemistry.

71. Inorganic Quantitative Analysis. A laboratory course specially designed for Mining Engineers. Four periods a week in the first term.—Dr. Johnson and Mr. Toole.

Text-book:—Lord and Demorest, Metallurgical Analysis.

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* Courses marked with a star are open to graduates as well as undergraduates.

*72. Advanced Inorganic Chemistry. (Arts 6.) A course of lectures on inorganic chemistry, discussing the elements and their compounds in accordance with the general principles of physical chemistry.

Two lectures a week throughout the session.—Dr. Johnson.

74. History of Chemistry. (Arts 9.) A short course dealing with the development of chemistry from the historical standpoint. One lecture a week in the second term.—Dr. Hatcher.

*75. Colloid Chemistry. (Arts 16.) Two lectures per week throughout the session and a total of twelve laboratory periods.—Dr. Johnson.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors:—H. M. MacKay. E. Brown. R. de L. French.

Assistant Professors:—R. E. Jamieson. G. J. Dodd.

Lecturers:—F. M. Wood. ————————.

Assistant in Charge of Testing Laboratory:—S. D. MacNab.

Demonstrator:— ————————.

First Year.

80. Engineering Problems. Application of mathematics to scientific and engineering problems of a simple nature, with special attention to the formulation of scientific ideas in mathematical form.

Required of all engineering students. Three hours per week.—Professor Brown, Messrs. Dodd, Wood and Weir.

Second Year.

81. Materials of Construction. Manufacture and properties of cast iron, wrought iron, crucible, Bessemer and open hearth steel. Course of prescribed reading with occasional conferences.

Required of all engineering students.—Professor MacKay and Mr. Sproule.

Text-book:—Spring, Non-Technical Chats on Iron and Steel.

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* Courses marked with a star are open to graduates as well as undergraduates.

83. MECHANICS. The general principles of statics and of the dynamics of a particle are developed in the lectures, and numerous examples illustrating the application of mechanics to engineering problems are worked out.

The course includes equilibrium of forces; friction; force and funicular polygons; bending moment and shear; forces in framed structures; hydrostatics; relative velocity; variable motion (straight line and curvilinear); simple harmonic motion; pendulums, springs; inertia forces in machines; crank effort curves; flywheels, etc.

The mathematical courses in calculus are taken concurrently and calculus methods are used freely. Two lectures and two hours problems per week.—Professor Brown, Mr. Jamieson and Mr. Dodd.

Reference book:—Poorman, Applied Mechanics.

Third Year.

86. MECHANICS. The work of the Second Year course in mechanics is extended, and the dynamical equations for the motion of a rigid body in two dimensions are deduced. Numerous examples are worked in detail, including problems on flywheels, kinetic energy of bodies having translation and rotation, oscillation of a rigid body about a fixed axis, impulse, etc. The elementary principles of the gyroscope are considered. Two lectures per week, first term.—Prof. Brown.

Reference book:—Worthington, Dynamics of Rotation.

87. STRENGTH OF MATERIALS. This course deals with the fundamental principles of the strength of materials. It includes the following:—Stress, strain, resilience, and the elastic properties of materials used in construction; bending moment and shearing force diagrams; strength, curvature, and deflection of beams; continuous beams; cantilever beams and the like; simple problems on rolling loads; reinforced concrete beams; the strength of shafting; spiral springs; columns; bending combined with tension or compression; elementary consideration of compound stresses; distribution of shearing stress on various sections, etc.

Required of all engineering students. Two lectures per week during the session.—Professor Brown and Mr. Jamieson.

Text-book:—Resistance of Materials.—Seely.

88. STRENGTH OF MATERIALS LABORATORY. The work illustrates the principles of the lecture course in strength of materials (87), and includes the following:—Tension tests of various materials; stress-strain diagrams by automatic recorders and by extensometers and scales; deflection of beams; torsion of shafts; experiments on spiral springs and torsional oscillations of wires; the moment of inertia of

flywheels; determination of Young's modulus; test of Portland cement; demonstrations on the large testing machines, on the breaking of timber and reinforced concrete beams and small columns, the compressive strength of concrete, bricks, mortars, etc. Three hours per week, second term.—Prof. Brown, Mr. Jamieson, Mr. Dodd, Mr. Wood and Mr. MacNab.

89. Foundations and Masonry. Borings; bearing power of soils; piles and pile driving; concrete piles; footings; grillages; underpinning; foundations under water, cofferdam, open dredging, pneumatic and freezing processes; estimation of quantities from drawings; estimates of costs.

Required of Civil Engineering students. One lecture per week, session; three hours problems per week, second term.—Prof. MacKay, Mr. Dodd.

Text-book:—Foundations of Bridges and Buildings, Jacoby and Davis.

90. Structural Engineering. Problems in the design of beams, plate girders, columns, roof trusses, knee bracing, etc.; working drawings; estimates of quantities. Required of students in Courses II, III, V, VI and VII. One lecture and three hours problems per week, second term.—Professor MacKay and Mr. Dodd.

Reference books:—Ketchum's Structural Engineer's Handbook; Ketchum's Mill Buildings; Bishop's Structural Drafting and Design of Details; Carnegie, Pocket Companion.

92. Railway Engineering. The locomotive and its work; locomotive and grade problems; effect of distance, rise and fall and curvature on train mile costs; estimate of probable receipts and expenditures; economics of location, reconnaissance, preliminary, and location surveys; turnouts. Required of Civil Engineering students. Two hours per week, first term.—Mr. Wood.

93. Railway Engineering. The proper location of a railway map, profile, earthwork, mass diagram, overhaul, velocity profile, bill of material and cost estimate of same; detailing of switches and complicated lay-outs and bill of track material. Required of Civil Engineering students. Six hours per week, first term.—Mr. Wood.

97. Hydraulics. The fundamental principles of hydraulics are considered and applied to problems on the discharge of orifices, notches, weirs, pipes and open channels under varying conditions. The theory of impact of jets and its application to turbines is also dealt with. Required of Civil Engineering students in the Third Year and of Mechanical and Electrical Engineering students of the Fourth Year. Two hours per week, first term.—Professor Brown.

Text-books:—Hydraulics.—Schoder and Dawson (McGraw Hill)

98. Hydraulic Laboratory. The course is illustrative of the principles considered in course 97, and is taken concurrently. The work includes the following experiments:—Measurement of discharge from orifices, notches and pipes, both straight and bent, to determine hydraulic coefficients; pressure of jets impinging on vanes; tests of Venturi meter, hydraulic ram, Pelton wheel, Francis and propeller turbines, centrifugal pumps, etc. Three hours per week, first term.—Professor Brown and Staff.

82. Sanitary Science. Basic principles of sanitation underlying the design of works for water supply, sewerage, the heating, lighting and ventilation of buildings, etc. Alternative with Map Projections 351. Four hours per week, first term.—Dr. Starkey.

85. Highway Engineering. Vehicular traffic and its requirements; methods of financing; economics of location; surveys; distance, grade and curvature; drainage; earthwork; paving materials, manufacture and use; maintenance; bridges, culverts, sidewalks and other accessories; designs and estimates. Two lectures and six hours laboratory per week, second term.—Professor French.

Text-book:—Agg's Construction of Roads and Pavements.

Fourth Year.

94. Theory of Structures. The analysis of statically determinate framed structures under fixed and moving loads; distortion of framed structures; swing spans; braced arches and arched ribs with two and three hinges; hingeless arches in concrete and reinforced concrete; frames with redundant members.

Required of Civil Engineering students. One lecture and three hours problems per week, first term; two lectures and six hours problems per week, second term.—Professor MacKay, Mr. Jamieson.

Reference books:—Johnson Bryan and Turneaure's Modern Framed Structures.

95. Strength of Materials. The course includes the following:—The bending and deflection of beams loaded and supported in any manner; deflection due to shear; principle of work applied to deflection of beams, and statically indeterminate problems; bending of curved bars, and of unsymmetrical sections; elastic strains; relation between elastic constants; strength of thick shells; earthwork theories; the design of floor and column systems for reinforced concrete buildings (including a critical study of standard specifications); retaining walls, etc.

Required of Civil Engineering Students. Two lectures per week during the first term, and one per week during second term, with the equivalent of one-half laboratory period per week throughout the session at times appropriate to the progress of the course.—Professor Brown.

Reference Books:—Strength of Materials, Morley; Strength of Materials, Case; Applied Elasticity, Timoshenko and Lessells; Reinforced Concrete, Taylor and Thompson, or Reinforced Concrete Construction, Vols. II and III, Hool, or Reinforced Concrete Handbook, Hool and Johnson.

96. Bridge Design. The reason governing the selection of a particular type of bridge, discussion of the loads to which the bridge will be subjected, calculation of the stress in the several members; determination of the section areas and forms of the members; design of the connections; preparation of complete drawings.

Required of students in Civil Engineering. Two lectures and six hours drafting per week.—Professor MacKay and Mr. Dodd.

Reference books:—Kirkham's Structural Engineering; Ketchum's Structural Engineer's Handbook; Waddell's Bridge Engineering.

96a. Bridge Design. A slightly briefer course than 96. Required of students taking the Municipal alternative.—Professor MacKay and Mr. Dodd.

99. Hydraulic Machines. The course deals mainly with the development of the modern turbine and centrifugal pump and includes the following general topics:—Application of the principles of hydraulics in explanation of the functions of the various parts of the machines; development and classification of turbines; specific speed; characteristics of different types and method of interpreting results of tests on small models; essential features and mechanical details of typical turbines and pumps; principal hydraulic formulæ underlying design, etc. Two hours per week, second term.—Professor Brown.

Reference books:—Hydro-Electric Handbook, Creager and Justin; Proceedings of Engineering Societies, etc.

100. Hydraulics and Laboratory. A short course embodying the hydraulic principles outlined under courses 97 and 98 will be given in the first term. There will be one lecture per week, and six or more laboratory periods at hours to be arranged. Required of Mining, Metallurgical and Chemical Engineering students of the Fourth Year.

Text-book:—Hydraulics, King and Wisler, Wiley.

101. Municipal Engineering. Fundamental principles of water supply, sewerage, sewage disposal, highway engineering and the treatment of garbage and rubbish. Required of Civil Engineering students not taking Municipal alternative. Two lectures per week, session; three hours problems per week, second term.—Professor French.

Text-books:—Turneaure and Russell's Public Water Supplies; Metcalf and Eddy's Sewerage and Sewage Disposal.

102. WATER SUPPLY AND SEWERAGE.

(a) *Water Supply.* Quantity, quality and pressure; rainfall and evaporation; run-off, pumping machinery; storage; dams, aqueduct, distribution systems, etc.; appurtenances; purification systems; fire service; construction materials and methods; designs and estimates.

(*b*) *Sewerage.* Quantity of sanitary sewage and of storm water; sewerage mains and appurtenances; construction methods and materials; designs and estimates.

(*c*) *Sewage Disposal.* Characteristics of sewage; disposal by dilution; screening and sedimentation; sludge; bacterial methods; costs and results; designs and estimates. Required of stutents taking Municipal alternative. Three lectures and six hours problems per week.—Professor French.

Text-books:—Turneaure and Russell's Public Water Supplies; Metcalf and Eddy's Sewerage and Sewage Disposal.

103. WASTE DISPOSAL. Characteristics of civic wastes; garbage, rubbish and ashes; disposal methods, dumping, land treatment, incineration, reduction; economic aspects; designs and estimates. Required of students taking Municipal alternative. One hour per week, first term.—Prof. French.

Text-book:—Herring and Greeley's Collection and Disposal of Municipal Refuse.

104. CIVIC ADMINISTRATION. This course is designed to emphasize the connection between the work of the municipal engineer and other civic activities. Such subjects as civic government and finance, education, reaction and charities and correction are discussed, as well as town planning and other engineering work of minor importance not covered in other courses. Required of students taking Municipal alternative. One hour per week, first term.—Professor French.

Text-book:—No regular text-books are prescribed, but free use is made of various Government bulletins and of current periodical literature.

Courses for the Degree of Master of Science

1. STATICALLY INDETERMINATE STRESSES. General methods of stress analysis, influence lines, applications to braced arches, rectangular frameworks, etc.; theory of riveted joints; columns with lateral and intermediate loads, etc.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

2. TECHNICAL ELASTICITY. The general equations of elasticity with various applications (special attention being paid to approximate numerical solutions); strength of flat plates, etc.; torsion of thin tubes

and prisms of non-circular section; the determination of stress distribution by means of polarized light; elastic stability; vibration of structures.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

3. SECONDARY STRESSES. Secondary stresses due to rigidity of joints, deflection of floor beams, eccentric connections, latticing, etc.; critical discussion of specifications for structural members in the light of tests.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

Professor MacKay.

4. REINFORCED CONCRETE ARCHES (ADVANCED). Preliminary design, development of influence lines, unsymmetrical arches, elastic piers, economics of concrete arches, etc.

One term, 1 hr. tutorial, and 6 hrs. computation and reports.

Professor MacKay.

5. HYDRAULICS. General principles of hydrology in relation to power development; stream gauging and use of records; flow in streams and in open channels; back-water computations; dams and spillways; the principles of hydraulics as applied to modern turbines; general trend of turbine development; turbine testing and characteristics; special problems such as pressure surges in conduits; general consideration of water-power plants, including the study of plants in operation; turbine testing and experimental work in hydraulic laboratory.

One hour tutorial, and 6 hrs. computation and reports throughout the session.....Professor Brown.

6. HIGHWAY ENGINEERING. A. Highways; history of development; finance, legislation and administration; traffic; economics of design, construction and maintenance; safety provisions. B. Highway Transportation; history; relation to other forms of transportation; economics of motor transportation; regulation; traffic control.

Session. 4 hrs. tutorial and 12 hrs. computation and reports.

Professors French and McKergow and staff. Special lectures from time to time.

DEPARTMENT OF DRAWING AND DESCRIPTIVE GEOMETRY

PROFESSOR:—HENRY F. ARMSTRONG.

DEMONSTRATORS:— L. R. MCCURDY.
J. C. ELDER.
H. E. MCLELLAN.

This Department provides a general course in drafting office methods and a training in the groundwork necessary to prepare the student for the work required in the Engineering courses of the Third and Fourth

Years. The accurate use of drawing instruments is practised and study is made of the various projection methods commonly employed. The problems in Descriptive Geometry are especially designed to develop the power of mentally picturing unseen objects and realizing details and conditions such as engineers are called upon to consider in preparing designs.

First Year.

340. MECHANICAL DRAWING. Instruction in the use of drawing instruments and materials, dimensioning, conventions and standards; preparation of working drawings and tracings of machine details and the detailing of assembly drawings; the making of drawings from dimensioned sketches. Three hours per week.—Professor Armstrong and staff.

Text-book:—Book of Plates, obtainable at Bursar's Office.

341. DESCRIPTIVE GEOMETRY. Geometrical methods; plane figures; areas; paths of points moving in planes, etc.; orthographic projections of points, lines, plane figures and solid objects; shadows, etc.

Three hours per week.—Professor Armstrong.

Text-books:—Geometrical Drawing, by H. F. Armstrong; Descriptive Geometry, by H. F. Armstrong.

342. FREEHAND DRAWING. The object of this course is to train the eye to observe and the hand to record the essential characteristics and proportions of objects by means of sketches and diagrams of machines, etc., and to prepare dimensioned sketches from which to make scale drawings.

One hour and a half per week.—Professor Armstrong.

343. LETTERING. Types and titles such as are chiefly in use in drafting offices, including single-line, block and Roman lettering, and stencils.

One hour and a half per week.—Professor Armstrong.

Second Year.

344. MECHANICAL DRAWING. Continuation of Subject 340.

Three hours per week.—Professor Armstrong and staff.

345. DESCRIPTIVE GEOMETRY AND PERSPECTIVE. Sections of solids, intersections and developments of surfaces; intersecting planes; tangent planes; axometric, including isometric, projections; perspective projection.

Three hours per week.—Professor Armstrong.

Text-book:—Descriptive Geometry, Henry F. Armstrong.

DEPARTMENT OF ELECTRICAL ENGINEERING

PROFESSOR:—C. V. CHRISTIE.

ASSISTANT PROFESSORS:—E. G. BURR. G. A. WALLACE.

SPECIAL LECTURER:—W. A. STEEL.

LECTURER:—W. H. SCHIPPEL.

DEMONSTRATORS:—S. A. CRAIG. R. C. SILVER. W. H. MOORE.

111. ELEMENTS OF ELECTRICAL ENGINEERING. For Third Year students in Mechanical and Mining Engineering and Fourth Year students in Chemical, Civil, and Metallurgical Engineering.

A general course in electrical engineering, treating of the laws of electro-magnetism; continuous and alternating current flow in various circuits; characteristics of direct and alternating current machinery; the fundamental principles of electric lighting, power distribution and electric traction. Two hours per week.—Mr. Wallace.

Text-book:—Gray's Principles and Practice of Electrical Engineering.

112. ELECTRICAL ENGINEERING LABORATORY. For Third Year students in Mechanical and Mining Engineering and Fourth Year students in Chemical, Civil and Metallurgical Engineering.

Includes tests of direct current metering and controlling devices, dynamos, motors, boosters, motor generators and constant current machines; experiments of variable current flow in circuits; tests of alternators, synchronous motors and converters, induction motors and transformers, etc. Three hours per week.

Third Year.

113. ELECTRICAL ENGINEERING. The theoretical consideration of current flow in circuits; the laws of electro-magnetism and of the magnetic circuit; the theory and operating characteristics of direct current machinery; the principles of alternating current machinery. Required of students in Electrical Engineering. Four hours per week.—Professor Christie.

Text-book:—Christie's Electrical Engineering.

114. ELECTRICAL ENGINEERING LABORATORY. Preparation of reports; construction, handling and protection of electrical apparatus; use of instruments; predetermination of the characteristics of electrical machinery; special and shop testing.

Tests are made in the Laboratory on:—Current flow in circuits; metering and controlling devices, generators, motors, boosters, balancers and motor generator sets. These tests are intended to illustrate the principles of action and the limits of the proper use of the apparatus. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, six hours per week. Problems, six hours per week.

Fourth Year.

117. ELECTRICAL ENGINEERING. The treatment of alternating current circuits by vector diagrams and vector equations; the theory and operating characteristics of alternating current machinery. Required of students in Electrical Engineering. Four hours per week.—Professor Christie.

Text-book:—Christie's Electrical Engineering.

118. ELECTRICAL ENGINEERING LABORATORY. Tests are made in the laboratory on alternators, synchronous motors and converters, compensators, induction motors, transformers, frequency and phase changing apparatus, potential regulators, rectifiers, etc. Students are furnished with special laboratory notes. Required of students in Electrical Engineering. Laboratory, nine hours per week.

120. ELECTRIC LIGHTING AND POWER DISTRIBUTION.—The design and operation of power plants and substations. Transmission and distribution systems are taken up under the following heads:—Selection of generators, transformers, switches and auxiliary apparatus with a study of their characteristics and limitations; wiring diagrams and switchboard design; line design and construction, selection of towers, insulators and conductors, calculation of sags and spans; high voltage and transient phenomena; the protection of overhead lines, cable systems and station apparatus; industrial applications of electrical apparatus; financial considerations. This subject is required of students in Electrical Engineering. Two hours per week, first term.—Mr. Burr.

Text-book:—Standard Handbook for Electrical Engineers.

121. ELECTRIC TRACTION. Urban, interurban and main line electrification is taken up under the following heads:—Choice of system and apparatus; calculation of motor rating and car equipment; overhead and track construction; methods of control, braking and regeneration; storage batteries and boosters; generating stations and substations, distribution systems, power supply; electrolysis mitigation for electric railways.

This subject is required of students in Electrical Engineering. Two hours per week, second term.

Text-book:—Standard Handbook for Electrical Engineers.

122. Electrical Design and Problems. The electrical design of direct and alternating current machinery. Special attention is paid to the limitations of the different types of machines and to the preparation of specifications. Required of students in Electrical Engineering. Lectures, one hour per week. Problem work, three hours per week, first term, six hours per week, second term.—Professor Christie.

Text-book:—Gray's Electrical Machine Design.

123. Applications of Electricity. Lectures on industrial and general applications of electric power, the electrical supply systems for industrial power and lighting; special problems of plant design; special problems of lighting in electrical systems; special problems of electrical transmission. Lectures, three hours per week, second term.—Mr. Burr.

125. Communication Engineering. The fundamentals of telephony and telegraphy and of radio telephony and radio telegraphy. Two hours per week session. One laboratory period per week, second term.—Mr. Wallace and Major Steel.

124. Electrical Measurements and Laboratory. Measurements of resistance, inductance, capacity, current, electro motive force, etc. Testing of meters, conductivity tests; iron testing, ratio and phase angle of current transformers; photometry; thermionic valve testing and other physical tests of an engineering nature. Two lectures per week, first term. One laboratory period per week session.—Mr. Wallace.

Courses for the Degree of Master of Science

1. Advanced Mathematics. Lectures and study under the direction of the Department of Mathematics.

Lectures, 2 hrs.....Professor Murray.

2. Electrical Physics. Lectures and study under the direction of the Department of Physics.

Lectures, 2 hrs.

3. Electrotechnics.

Colloquium, 2 hrs.

The thesis will be in one of the following fields of investigation:

(a) Design, characteristics and testing of electrical machinery; investigation of special machinery; special problems of design.

(b) Properties of dielectrics and electric insulators; laboratory instruction and experimental investigation, with facilities for high voltage testing.

(c) Design, characteristics and testing of electrical engineering measuring instruments and devices. Facilities are available for precision measurements of most of the electrical quantities. Laboratory investigation of new types of measuring instruments and development of special devices.

(d) Investigation of devices for protection of electrical power systems; laboratory testing of relays and other devices; development of special types.

A workshop is available for the construction of special apparatus for research work.

DEPARTMENT OF ENGLISH

PROFESSOR:—CYRUS MACMILLAN.

131. ENGLISH. Second Year. One lecture and two hours conference per week.

132. SUMMER READING OR ESSAY. Second Year. (See page 276.)

133. SUMMER READING OR ESSAY. Third Year. (See page 277.)

134. SUMMER READING. Fourth Year. (See page 278.)

DEPARTMENT OF GEOLOGY AND MINERALOGY

PROFESSOR OF GEOLOGY:—J. AUSTEN BANCROFT. (*Absent on leave.*)

PROFESSOR OF MINERALOGY:—R. P. D. GRAHAM.

ASSOCIATE PROFESSOR OF GEOLOGY:—JOHN J. O'NEILL.

ASSOCIATE PROFESSOR OF PALÆONTOLOGY:—T. H. CLARK.

LEROY FELLOW IN GEOLOGY:—HAROLD S. GERSON.

Third Year.

141. GENERAL GEOLOGY. (Arts 1.) The lectures will embrace a general survey of the whole field of geology and will be introduced by a short course on mineralogy. Especial attention will be devoted to dynamical geology and to historical geology, including a description of the fauna and flora of the earth during the successive periods of its past history, as well as to the economic aspects of the subject.

The lectures will be illustrated by the extensive collections in the Peter Redpath Museum, as well as by models, maps, sections and lantern slides. In addition to the lectures there will be a demonstration each week.—Professors Graham and Clark.

Text-book:—Cleland, Geology, Physical and Historical.

142. MINERALOGY. (Arts 5.) The lectures and demonstrations, illustrated by specimens and models, deal mainly with the description and means of identification of species, special attention being paid to the

ores and economic minerals and to those which are important as rock constituents. The earlier lectures are devoted to a brief discussion of the geometrical and physical properties of minerals; their chemical composition; calculation of formulæ, etc., and the principles of classification.—Professor Graham.

143. Determinative Mineralogy. (Arts 6.) Laboratory practice in blow-pipe analysis and its application to the determination of mineral species.—Professor Graham.

Fourth Year.

146. Petrography. (Arts 10 in part.) The modern methods of study employed in petrography are first described, and the classification and description of rocks is then taken up.

One lecture and one laboratory period per week during the first term.—Professors Graham and O'Neill.

147. Advanced Petrography. (Arts 10 in part.) This is a more advanced course than 146. One laboratory period per week during the second term.—Professors Graham and O'Neill.

Text-book:—Harker's Petrology for Students.

148. Ore Deposits and Economic Geology. (Arts 7 and 8.) The nature, mode of occurrence and classification of ore deposits will first be taken up. A series of typical occurrences will then be described and their origin discussed. The more important non-metallic materials, *e.g.*, fuels, clays, building stones, etc., will be similarly treated, as well as questions of water supply, artesian wells, etc. The structure of the earth's crust, more especially with reference to folding, faulting and igneous intrusion in their bearing upon mining, will then be considered, and the course will close with a discussion of the methods employed in carrying out geological and magnetic surveys and in the construction and interpretation of geological maps and sections.—Professor O'Neill.

Books of reference:—Geikie, Outlines of Field Geology; Kemp, Ore Deposits of the United States and Canada; Lindgren, Mineral Deposits; Leith, Economic Aspects of Geology; the Reports of the Geological Survey of Canada, and the Publications of the U.S. Geological Survey.

149. Geology of Canada. (Arts 4.) A general description of the geology and mineral resources of the Dominion.—Professor O'Neill.

151. Optical Mineralogy and Crystallography. (Arts 9.) A short course of lectures for students in chemistry, with laboratory practice in the measurement and drawing of crystals; calculation of axial ratios, etc.; use of the polarizing microscope, axial angle apparatus, etc.—Professor Graham.

152. Historical Geology. (Arts 3.) This is a continuation of course 141, and will consist of lectures, colloquia and museum work extending throughout the session.—Professor Clark.

153. Field Work. The students in mining will receive a course of instruction in geological mapping and field work, extending over one week—in connection with the summer school of mining.—Professors Graham, O'Neill and Clark.

HISTORY OF SCIENCE, ENGINEERING LAW AND ECONOMICS

Associate Professor of Economics:—J. P. Day.

Assistant Professor of Economics:—J. C. Farthing.

Associate Professor of Accountancy:—R. R. Thompson.

Lecturer on Law:—J. W. Weldon.

Lecturer in Economics:—John Thomas Culliton.

170. History of Science. A course of lectures on the History of Science and the History of Engineering by various lecturers, supplemented by reading and written exercises. One hour per week.

171. Elements of Political Economy. The lectures will deal with the production and distribution of wealth; the means by which these processes are effected; the means by which they are controlled and regulated by the state or the community; the various theories concerning their operation and regulation; their effect on society, labor and capital; theories of money and credit; prices; public finance and taxation. Two hours per week in the second term of the Third Year. —Mr. Farthing.

Book of reference:—McGibbon, Economics for Canadian Readers.

172. (a) Corporation Finance. A course of instruction in the fundamental principles of accounting and corporation finance. The following will be dealt with:—Capital and revenue receipts and expenditure; corporations; shares and bonds; fixed and current assets and liabilities; valuations; depreciation; reserves; manufacturing, construction, trading and profit and loss statements; overhead rates; estimates.—Professor R. R. Thompson.

(b) Canadian Economic Problems. This course is intended to familiarize engineering students with the most important economic problems of the day; the currency and banking systems; taxation; trade policy; the history of the tariff; transportation; its development and policy.—Professor Day and Mr. Culliton.

Two hours per week for the first term of the Fourth Year.

175. ENGINEERING LAW. This course is intended to present such an outline of the law as will be useful to engineers and business men. One hour per week in the Fourth Year.—Mr. Weldon.

DEPARTMENT OF MATHEMATICS

PROFESSORS:—D. A. MURRAY. C. T. SULLIVAN.

ASSOCIATE PROFESSOR:—W. L. G. WILLIAMS.

ASSISTANT PROFESSORS:—R. E. JAMIESON. G. J. DODD. F. M. WOOD.

First Year.

191. PLANE TRIGONOMETRY. Solid geometry and plane trigonometry. First term.—Messrs. Dodd and Jamieson.

Text-books:—Hall and Stevens' School Geometry, Part VI (Macmillan); Murray's Plane and Spherical Trigonometry (Longmans).

192. ALGEBRA. Miscellaneous theorems and exercises, exponential and other series, properties and solution of higher equations, complex numbers, graphical algebra with an introduction to analytic geometry, indeterminate forms, limits, derivatives, slopes of curves. First and second terms.—Messrs. Williams and Wood.

Text-books:—Hall and Knight, Higher Algebra; Tanner and Allen, Brief Course in Analytic Geometry (American Book Co.).

193. MENSURATION. Solid mensuration and spherical trigonometry. Second term.—Messrs. Dodd and Jamieson.

Text-books:—As in Course 191.

194. MECHANICS. An elementary course in dynamics, statics, and hydrostatics. First and second terms.—Messrs. Dodd and Jamieson.

Text-book:—Mimeographed notes by Mr. Jamieson.

Second Year.

197. ANALYTICAL GEOMETRY. The point, straight line, circle, parabola, ellipse and hyperbola, elements of geometry of three dimensions. First Year (latter part of second term), and Second Year (first term). The Second Year work begins with the circle.—Messrs. Murray and Williams.

Text-book:—Tanner and Allen, A Brief Course in Analytic Geometry (American Book Co.).

198. CALCULUS. Differentiation of functions of one or more variables, successive differentiation, tangents, etc., curvature, maxima and minima, integration, with application to areas, volumes, moments of inertia, etc. First and second terms.—Messrs. Murray and Williams.

Text-book:—Murray's Differential and Integral Calculus (Longmans).

Third Year.

201. CALCULUS. Elementary differential equations. Prescribed for Electrical Engineering students of the Third Year; optional for all others. First term, 2 hours.—Dr. Sullivan.

Text-book:—Murray's Differential Equations (Longmans).

DEPARTMENT OF MECHANICAL ENGINEERING

PROFESSOR:—C. M. MCKERGOW.

ASSOCIATE PROFESSOR:—A. R. ROBERTS.

ASSISTANT PROFESSOR:—J. A. COOTE.

LECTURERS:—R. H. PATTEN. L. R. MCCURDY.

SHOP INSTRUCTOR:—W. GATEHOUSE.

Second Year.

218. MECHANICS OF MACHINES. (Second term.) *Kinematics of Machines.*—Constrained motion; kinematic pairing; velocity and acceleration in mechanism; centrodes; analysis and classification of simple mechanisms, including the quadric crank chain, the slider crank chain and various wheel trains; design of involute and of cycloidal wheel-teeth.—Mr. Patten.

Text-book:—Durley's Kinematics of Machines (Wiley).

Third Year.

224. MECHANICS OF MACHINES. Alternative with course (238), Accounting. Relative motion and displacement; crank effort diagrams, flywheels and inertia forces; the mechanism of the simple slide valve and of expansion valves; solution of valve setting problems; the function and dynamics of governors; elements of engine balancing; friction and lubrication. Required of students in Mechanical Engineering. Three hours per week.—Mr. McCurdy.

Text-book:—Ewing's Steam Engine (Camb. Univ. Press).

225. MACHINE DESIGN. Principles of the strength of materials as applied to the design of the part of machines; fastenings used in

machine construction, bolts, screws, keys, cotters, rivets, and riveted joints; journals and bearings; shafts and couplings. Required of students in Mechanical and Electrical Engineering. Two hours per week.—Professor Roberts.

Text-book:—Unwin's Machine Design, Part I (Longmans). *Book of reference:*—Spooner's Machine Design (Longmans).

226. MECHANICAL ENGINEERING. General course in Mechanical Engineering of Power Plants and Prime Movers.

Fuel and combustion, steam, and steam production; corrosion and defects of boilers; boiler accessories, principles of selection and arrangement; the steam engine; estimation of power developed and economy; condensers, pumps and accessories; steam turbines; principles of design in steam plants; gas engines and gas producer plants. Required of all Engineering students, except those in Mechanical Engineering. Two hours per week.—Professor McKergow.

Text-book:—MacNaughton, Steam Engines.

227. MECHANICAL ENGINEERING. Same course at 226, but more time is given to working out practical problems. Required of students in Mechanical Engineering. Three hours per week.—Prof. McKergow.

Text-book:—As for 226.

228. MECHANICAL ENGINEERING LABORATORY. Testing and calibration of indicators, brakes and other measuring instruments; tests to determine the efficiency of belt and other transmission gearing; the properties of lubricants; the economy and performance of a steam engine and boiler, of a gas engine, of an air compressor, and of a pump. Required of all Engineering students, except those taking the Electrical Engineering course. Three hours per week.—Mr. Patten.

Reference book:—Carpenter, Experimental Engineering.

223. MECHANICAL ENGINEERING LABORATORY. First term, course same as 228; second term, experimental work on the relative value of throttling and expansion governors; effect on the economy of steam engine of changing from simple to compound, triple, or quadruple expansion; the testing of steam boilers, producer gas engines, air compressors, steam turbines, and a complete steam power plant test. Required of students in Electrical Engineering. Six hours per week in first term and three hours per week in second term.—Mr. Patten.

Reference book:—Carpenter, Experimental Engineering.

229. THERMODYNAMICS. Fundamental laws and equations of thermodynamics; their application to gases and to saturated super-heated vapours; efficiency of ideal heat engines; properties of steam, and

elementary theory of the steam engine; elementary theory of gas and hot-air engines. Required of Third Year students in Mechanical and Electrical Engineering. Two hours per week.—Professor Roberts.

Text-books:—Marks and Davis, Steam Tables; Elements of Engineering Thermodynamics, Moyer, Calderwood and Potter.

Reference book:—Ewing, The Steam Engine and Other Heat Engines (Camb. Univ. Press).

231. MECHANICAL DRAWING. This course is supplementary to the course in machine design and consists of exercises in design and draughting of fastenings, machine parts and simple machines. Required of Mechanical Engineering students. Six hours per week for the first term and three hours per week for second term.—Mr. McCurdy.

233. Introduction to courses Nos. 236 and 231. These courses are for four weeks in September, preceding the work of the Third Year.—Messrs. McCurdy and Gatehouse.

236. MACHINE SHOP. Lathe Work; marking off; centering; turning and boring; radial facing; filing; grinding and polishing; internal and external screw cutting; change gear calculations; taper turning and bench work. Required of students in Mechanical Engineering. Three hours per week for one term.—Mr. Gatehouse.

237. INDUSTRIAL ENGINEERING. Fundamental principles, modern tendencies and problems arising therefrom, scientific management, routing, etc., personnel and collective bargaining.

Text-book:—Industrial Organization (Kimball), third edition.

Two lectures per week during the first term.—Mr. Coote.

238. ACCOUNTING. Alternative with Mechanics of Machines (224). This course is designed to give students the fundamental principles of bookkeeping and accounting so that they will be in a position to deal intelligently with the books of account and the financial statements met with in engineering work, particularly in manufacturing. One hour lecture and one problem period per week.—Mr. Coote.

Fourth Year.

240. MECHANICS OF MACHINES. (a) *Valve gears and governors.* Gyrostatic action in machines; further treatment of engine governors; knocking and shocks in reciprocating machinery; valve gears.—Prof. McKergow.

(b) *Aerodynamics.* The construction of an æroplane; methods of experiment in æronautics; prediction of performance from experimental

data; stability and control; the theory of air screws. Three hours per week.—Professor McKergow.

Reference books:—Dalby's Balancing of Engines; Spangler's Valve Gears.

241. DESIGNING. The complete design of an engine, a pump, or a machine tool, is worked out, and the requisite working drawings and tracings are prepared. Required of students in Mechanical Engineering. Three hours per week.—Professor Roberts.

242. MACHINE DESIGN. (a) Designs of power transmission, gearing, including belts, ropes, friction, chain and toothed gearing, fits and fitting. (b) Engine details, including cylinders, piston rods, connecting rods, shafts, fly-wheels and machine frames. Required of Mechanical Engineering students. Two hours per week.—Professor Roberts.

Text-book:—Unwin's Machine Design, Parts I and II (Longmans).

Reference book:—Spooner's Machine Design (Longmans).

243. MACHINE DESIGN. Course same as 242 (a). Two hours per week during the second term. Optional for Electrical Engineering students.—Professor Roberts.

244. POWER PLANT DESIGN. The arrangement, design and operation of power plants worked by steam and gas engine; effects of requirements for lighting, heating and power distribution. One lecture hour and one drafting room period per week. Required of students in Mechanical Engineering.—Professor McKergow.

Text-book:—Gebhardt, Steam Power Plant Engineering.

247. HEATING AND VENTILATION OF BUILDINGS. Loss of heat from buildings; radiation surfaces; design and operation of heating systems; principles of ventilation; fans and blowers; design and duct systems; temperature and humidity control. One hour per week.—Professor McKergow.

Text-book:—Allen and Walker, Heating and Ventilating.

249. MECHANICAL ENGINEERING LABORATORY. Experimental investigation of:—action of governors; performance of fans and blowers; performance of steam boilers, steam engines, steam turbines, refrigeration machines, condensers, gas engines and producers, efficiency of air compressing and pumping machinery; tests of a complete steam power plant, gas power plant and a heating and ventilating system. Ten hours per week. Required of students in Mechanical Engineering.—Professor McKergow, Mr. Patten.

Reference book:—Carpenter. Experimental Engineering.

249a. MECHANICAL ENGINEERING LABORATORY. Similar to course 249. Taken by students in Fourth Year Mechanical Engineering who take the Industrial Administration option. Two periods per week.

257. EXPERIMENTAL ENGINEERING. Theory of errors; calibration and use of instruments; measurement of power; methods of testing power-plant apparatus and the tabulation of results. Required of students in Mechanical Engineering. One hour per week.—Professor Roberts.

Text-book:—Carpenter, Experimental Engineering.

251. THERMODYNAMICS. Efficiency of the piston steam engine, behaviour of steam in the cylinder, influence of size, speed rate of expansion, compounding, superheating and steam-jacketing; flow of gases and vapours through orifices and nozzles and applications to the design of steam-turbines; theory and analysis of performance of internal-combustion engines; refrigerating-machine cycles. Required of students in Mechanical Engineering. Two hours per week.—Prof. Roberts.

Text-books:—Ewing's Steam Engine (Cambridge Univ. Press); Moyer, Steam Turbines (Wiley); Marks and Davis, Steam Tables and Diagrams (Longmans).

Books of reference:—Stodola, The Steam Turbine (trans. Lowenstein) (Van Nostrand); Clerk, The Gas Petrol and Oil Engine, Part I.

252. MACHINE SHOP. Experimental work and studies for the minimum times required for production, involving a consideration of the best available machine tool speeds, necessary power of belting, most efficient tool angles, quality of metal and the kind of tool steel used. The course includes work in connection with the lathe, the planer, slotter, shaper and miller; instruction in gear cutting and cutter grinding. Required of students in Mechanical Engineering. Three hours per week.—Mr. Gatehouse.

253. INDUSTRIAL ENGINEERING. A consideration of the economic factors that influence the location of industrial plants, such as the capacity of the market, the location of raw materials and the source of power, transportation facilities and costs, etc.; selection of local site and design of the plant; organizing and financing the company; organizing for operation and forecasting results. Two lectures and one drafting room period per week throughout the year.—Mr. Coote.

Text-book:—Walker, Management Engineering (McGraw-Hill).

254. INDUSTRIAL ADMINISTRATION. The control of industry—production, finance and sales by means of planning systems, control boards, charts, budgets, standard costs, etc. The lectures will be largely descriptive of the different control devices and the problem periods will be devoted to their practical working out and use. One lecture and one drafting room period per week in the second term.—Mr. Coote.

258. INDUSTRIAL RELATIONS. A study of the problems arising out of the administration of industrial enterprises on the human side; the recruiting of the labor force; introducing the worker to the factory; health and safety; job analysis and job specifications; education; wages and hours; profit-sharing, shop committees and collective bargaining. Two lectures per week in the first term.—Mr. Coote.

Text-book:—Personnel Administration by Tead and Metcalfe (McGraw-Hill).

Summer Schools—see note (c), page 274.

Courses for the Degree of Master of Science

1. ENGINEERING THERMODYNAMICS. Prerequisite, Course 251 (see page 91).

3 hrs. colloquia.....Professor McKergow.

2. MACHINE DESIGN. Prerequisites, Courses 225 and 242 (see pages 87 and 90).

3 hrs. colloquia.....Professor Roberts.

DEPARTMENT OF METALLURGICAL ENGINEERING

PROFESSOR:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON SPROULE.

LECTURER:—HAROLD J. ROAST.

SPECIAL LECTURER:—CHARLES F. PASCOE.

RESEARCH FELLOW:— ————.

Third Year.

261. ELEMENTARY METALLURGY AND LABORATORY. An introductory course in general metallurgy, including metals and alloys, fuels, furnaces, refractory materials, pyrometry and calorimetry, metallography, heat treatment and testing of metals, smelting and refining operations and a short account of the metallurgy of copper, lead, iron and steel.

The instruction consists of lectures during the first term and a short laboratory course in which the following exercises are carried out as far as time permits: (*a*) Roasting a sulphide or arsenical ore; (*b*) formation and properties of copper or lead mattes and slags; (*c*) smelting a copper or lead ore in crucible; (*d*) melting and casting certain metals and alloys; (*e*) the use of the electric furnace; (*f*) leaching a copper or silver ore; (*g*) elementary exercises in some of the following: pyrometry, calorimetry, tests of refractory materials, microscopic examination of metals, heat-treatment of iron or steel, and some simple mechanical testing methods.

Two lectures a week during the first term and one laboratory period during the second term.—Mr. Sproule.

A short laboratory course in practical pyrometry is given to students taking course 8B, Theory of Heat, in the Department of Physics.

262. Elementary Metallurgy. The course of lectures as in 261, but without laboratory work, for Chemical and Mining Engineering students.

263. Fire-Assaying. The lectures and instruction sheets give an account of the furnaces, balances and other appliances used in assaying, the sampling and preparation of ores, the fluxes and reagents employed, and the methods used in assaying gold, silver and lead ores, copper and copper ores and mattes, gold and silver bullion and base bullion, cyanide precipitates and solutions.

One lecture a week during the second term for Metallurgical and Mining students.—Mr. Sproule.

264. Fire-Assaying Laboratory. The students learn as many of the above-mentioned methods as possible in the time allowed to this course. Care is taken that a student shall be able to make such assays as would be required at a mine, and with a fair degree of accuracy. Students usually have an opportunity of doing additional fire-assaying in their Fourth Year.

Two laboratory periods a week during the second term, for Metallurgical and Mining students.—Mr. Sproule.

Reference books:—E. A. Smith, Sampling and Assay of the Precious Metals; E. E. Bugbee, Fire-Assaying.

265. Metallurgical Calculations. This is an introductory course on the application of exact chemical and physical laws to metallurgical operations, such as the combustion of fuel, the smelting of ores and the construction and heating of furnaces. One lecture a week during the session for Metallurgical students.—Dr. Stansfield.

Text-book:—J. W. Richards, Metallurgical Calculations, Vol. I.

267. Metallurgical Field School. This is held at the end of the Third Year. The first part consists of visits to metallurgical works in Montreal and the vicinity, supplemented by reading and lectures. The second part consists of visits to smelters, steel-works and metallurgical refineries throughout Canada. Students are required to keep notes during the school and to submit a written account of their observations at the beginning of the next term.

The Field School has been held in Pennsylvania, Nova Scotia, British Columbia and other parts of Canada, but it is usually conducted in Ontario, as this offers the greatest variety at the least cost. The

only charge made is for board, lodging and railway fares, and care is taken to keep these as low as possible.

At the close of the School it is usually possible for each student to obtain suitable employment for the summer, at one of the works visited, and students are strongly advised to take this means of obtaining metallurgical experience.

Fourth Year.

271. METALLURGY (General).

(*a*) The metallurgy of iron and steel.

(*b*) The metallurgy of copper, lead, gold, silver, zinc and nickel.

Two lectures a week during the session and a few laboratory demonstrations, for Metallurgical and Mining students.—Dr. Stansfield.

Text-books:—H. M. Boylston, an introduction to the Metallurgy of Iron and Steel; W. Gowland, The Metallurgy of the Non-ferrous Metals

272. METALLURGY (Advanced).

(*a*) General advanced metallurgy.

Text-books:—Fulton, Principles of Metallurgy; Jeffries and Archer, "The Science of Metals."

(*b*) A more detailed account of the metals mentioned in 271, and of aluminum, antimony, arsenic, bismuth, cadmium, cobalt, mercury, platinum and tin.

Required of Metallurgical students. Two hours a week during the session.—Dr. Stansfield.

Reference books:—Hofman and Hayward, Metallurgy of Copper; Hofman, Metallurgy of Lead; Hofman, Metallurgy of Zinc and Cadmium; Addicks, Copper Refining; Liddell, "Handbook of Non-Ferrous Metallurgy;" Johnson, The Principles, Operation and Products of the Blast Furnace; Forsythe, The Blast Furnace and the Manufacture of Pig Iron.

273. FIRE-ASSAYING AND LABORATORY. A short course for Chemical Engineering students. For particulars, see 263 and 264. One laboratory period and one lecture in the first term.—Mr. Sproule.

274. METALLURGICAL LABORATORY AND THESIS. Three periods per week in the second term are devoted to the serious study of some metallurgical problem. The students work singly or in pairs and prepare a thesis containing an account of important published work bearing on the subjects, as well as the result of their own experimental researches. Required of Metallurgical students.—Dr. Stansfield.

275. ELECTRO-METALLURGY AND LABORATORY. The course of lectures is devoted mainly to a consideration of the principles and construction of electric furnaces, and their uses for smelting and refining

metals. The refining of metals and the recovery of metals from their ores by electrolysis of aqueous solutions is also considered. The laboratory work is arranged to illustrate the lectures. Groups of students operate each of the main types of electric furnace and become familiar with some of the principles of electric furnace construction and design. Two lectures a week and one laboratory period during the second term for Metallurgical students.—Dr. Stansfield.

Text-book:—Stansfield, The Electric Furnace.

277. METALLURGICAL COLLOQUIUM. One hour a week during the second term is given to informal discussions of research and other work being done in the department, and to other topics of metallurgical interest.—Dr. Stansfield.

278. METALLURGICAL CALCULATIONS AND DESIGN. The calculation of furnace charges and efficiencies, and the designing of metallurgical furnaces and plants. One lecture a week during the first term and two periods per week in the library and drafting room during the second term.—Dr. Stansfield.

279. METALLURGICAL ANALYSIS. In this course the student is enabled to acquire dexterity in the modern commercial methods of analyzing ores and ferrous and non-ferrous alloys, taking into consideration the need of speed and reasonable accuracy. Instruction is given in the essential features of the methods employed and in fitting up a works' laboratory. One lecture and one laboratory period per week during the second term.—Mr. Roast.

280. METALLOGRAPHY. A course of lectures on the fundamentals of metallography, including the heat-treatment of steel and the standardization of the common non-ferrous alloys. One lecture a week during the first term, for Metallurgical students.—Mr. Roast.

281. METALLOGRAPHIC LABORATORY. Laboratory instruction and practice in preparing and studying specimens of iron, steel, bronze, brass and babbitt metal for microscopic examination, and in the heat treatment of steel and the methods of thermal analysis. One laboratory period per week during the first term, for Metallurgical students.—Mr. Roast.

282. METALLOGRAPHY AND LABORATORY. A short course of lecture and laboratory instruction, covering the essential features of theoretical and practical metallography. One lecture and one laboratory period per week during one-half of the first term, for Chemical Engineering students.—Mr. Roast.

283. METALLURGICAL CALCULATIONS. A course resembling number 265 but adapted to the requirements of the Fourth Year Mining students. One lecture a week during the session.—Dr. Stansfield.

284. METALLURGICAL LABORATORY for Mining students. One period during the second term, arranged to illustrate lecture courses 262 and 271.—Dr. Stansfield and Mr. Sproule.

EXTENSION COURSES

A course of lectures and laboratory instruction in Metallography is given in the evening by Mr. Roast and Mr. Pascoe.

A course of lectures and laboratory instruction in Commercial Metallurgical Analysis is given in the evening by Mr. Roast.

Courses of lectures and laboratory instruction in General Metallurgy and in Fire-Assaying are given in the evening by Mr. Sproule.

For particulars, see Announcement of Extension Courses.

MINING AND METALLURGICAL SOCIETY

See page 318.

RESEARCH FELLOWSHIPS AND GRADUATE COURSES

One or more research fellowships are usually offered to graduate students in Metallurgical Engineering. Details of the graduate instruction are given in the Announcement of the Faculty of Graduate Studies and Research.

Courses for the Degree of Master of Science

1. GENERAL ADVANCED METALLURGY. A series of advanced studies of the theory and practice of metallurgy, taken from the following list:—

Physical properties and allotropic changes of metals.

Constitution and properties of metallic alloys.

Constitution and properties of slags and mattes.

Chemical equilibria, thermo-chemistry and speed of chemical reactions in metallurgical practice.

Design and efficiency of fuel-fired and electrical furnaces.

Properties, cleaning and utilization of furnace gases.

Electrolysis as applied to the refining and recovery of metals.

Instruction is given by directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work.....Dr. Stansfield, Mr. Sproule and Mr. Roast.

2. The same as No. 1, but including a special study of one or more selected metals, or of some special branch of metallurgy such as electro-metallurgy or hydro-metallurgy. (Alternative with No. 1.)
Dr. Stansfield.

3. The same as No. 1, but including a course of instruction and laboratory work on the properties of metals and refractory materials and the use of metallurgical testing instruments. (Alternative with No. 1.).....Dr. Stansfield and Mr. Sproule.

The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

4. ADVANCED METALLURGY.—Fourth Year Applied Science, No. 272. 2 hrs. lectures.....Dr. Stansfield.

5. ELECTRO-METALLURGY AND LABORATORY. Fourth Year Applied Science, No. 275. 2 hrs. lectures and 1 laboratory period in second term .....Dr. Stansfield.

6. METALLURGICAL ANALYSIS. Fourth Year Applied Science, No. 279. 1 hr. lecture and 1 laboratory period in second term....Mr. Roast.

7. METALLOGRAPHY AND LABORATORY. Fourth Year Applied Science, Nos. 280 and 281. 1 hr. lecture and 1 laboratory period in first term. Mr. Roast.

NOTE.—Graduates in Chemical Engineering in the Inorganic Option will be allowed to specialize in Metallurgy—including two summers' work and a year of metallurgical study in the Graduate Faculty—and if successful will be given the degree of M.Sc. in Chemistry.

DEPARTMENT OF MINING ENGINEERING

PROFESSOR:—WILBERT G. MCBRIDE.

ASSOCIATE PROFESSOR:—JOHN W. BELL.

LECTURER:—WILLI ERLENBORN.

DAWSON RESEARCH FELLOW:—FREDERICK R. BURTON.

DOUGLAS RESEARCH FELLOW:—CHARLES L. COLEMAN.

HARRINGTON RESEARCH FELLOW:—KENNETH M. DEWAR.

Third Year.

291—MINING ENGINEERING. *The principles and practice of mining.*—Introductory, simple mining methods, excavation, explosives and blasting, rock drills, coal cutters, gold washing and dredging, hydraulic mining, quarrying, etc. Two lectures per week in the second term. This course is continued in the Fourth Year. (See 297.).—Professor McBride and Mr. Erlenborn.

292. ORE DRESSING. *The theory and practice of ore dressing.*—The forms in which ores occur and the effect of mixture, impurity, etc.; the theoretical considerations affecting mineral separations; the mechanical operations involved; crushing, sizing and dressing machinery—

breakers, stamps, rolls, screens, jigs, vanners, tables, flotation apparatus, washers, magnetic separators, etc. Two lectures per week and laboratory. This course is continued in the Fourth Year. (See 300.)—Professor Bell.

295. Crushing Machinery. This is the first half of course 292 and is taken by students in Chemical Engineering as well as by Mining and Metallurgical students. Two lectures per week in first term.—Professor Bell.

Text-books:—H. C. Hoover's Principles of Mining; Taggart's Handbook of Ore Dressing; and Peele's Mining Engineer's Handbook.

Fourth Year.

293. Mine Mapping. The calculations and plotting of mine surveys. One afternoon per week in the first term.—Mr. Erlenborn.

297. Mining Engineering. *The principles and practice of mining.*—Prospecting, artesian and oil wells, diamond drilling, open cut mining, shaft sinking, underground development and methods of mining, timbering, hauling, hoisting, pumping, lighting, ventilating, etc.; mine accidents and their prevention; general arrangement of plant, stores and dwellings; administration and industrial relations; examination and valuation of mines and mine reports. Three lectures a week.—Professor McBride and Mr. Erlenborn.

298. Mining Design. Practical problems in calculation of the grade and tonnage of ore bodies, methods of mining, hoisting, draining, ventilation, surface plant and equipment, metallurgical treatment and organization. One lecture period and two drafting-room periods in the second term.—Professor McBride, Professor Bell and Mr. Erlenborn.

300. Ore-Dressing and Milling. Continuation of the ore-dressing course of the Third Year. Gold and silver milling, amalgamation, cyaniding, flotation, etc., concentration plants, coal breakers and washers, general conclusions regarding plant design and lay-out. Two lectures a week in the first term.—Professor Bell and Mr. Erlenborn.

301. Mining Colloquium. One hour a week is given to the presentation and discussion of papers on the work being done in the department and to other matters relating to mining and ore-dressing. Students are required to take the leading part in these exercises.

305. Ore-Dressing Laboratory. One and one-half mornings per week in the first term are given to the ore-dressing and hydraulic laboratories. This time is chiefly assigned to ore-dressing, and certain typical operations are carried out. The exercises in ore-dressing are a continuation of the Third Year laboratory work, but are arranged as far as possible for individuals rather than groups of students. They comprise experiments in crushing, classifying, slime treatment, cyanidation and amalgamation, flotation, coal washing, etc.

306. Ore-Dressing Laboratory and Thesis Work. In the second term one whole day and one additional morning per week are given to individual work in the laboratory and to the preparation of a thesis to be filed in the departmental library, and, when suitable, published. Students who complete the work in course 305 before the end of the first term, begin their thesis work without delay.

The subjects available for thesis work are very numerous, and range from purely theoretical investigation in crushing, screening, classification, concentration, flotation, etc., to the experimental determination of the best methods for the treatment of particular ores. Numerous different lots of ore are available in sufficient quantities for work on a comparatively large scale. New ores are constantly being secured.

Text-books:—In addition to the text-books already specified for the Third Year, students are required to provide themselves with Hamilton's Manual of Cyanidation. In addition to using these formal text-books, students are required to make frequent use of the works named below:—Hager's Oil Field Practice; Donaldson's Practical Shaft Sinking; Brinsmade's Mining Without Timber; Handbook of Mining Details on the Design of Mine Structures, published by McGraw-Hill Co.; Ketchum's Design of Mine Structure; Peele's Compressed Air Plant; Richards and Locke's Text-book of Ore-Dressing; Rickard's Sampling and Estimation of Ore in a Mine; Julian and Smart's Cyaniding Gold and Silver Ores; Megraw's Details of Cyanide Practice; Hoover's Concentrating Ores by Flotation; Prochaska's Coal Washing; The Coal and Metal Miners' Pocket-book.

Research Fellowships and Graduate Courses

Special courses of instruction are offered to graduate students in mining and ore-dressing. See below. There are three endowed Research Fellowships in the gift of the Mining Department. These are assigned to graduates of the department who show particular aptitude for advanced work.

Laboratories

The specific laboratory instruction in mining subjects proper begins in the Third Year, with courses in assaying, elementary metallurgy and ore-dressing. In the Fourth Year this work is elaborated, the general method of instruction being first to conduct a limited number of typical operations, and then to assign to each student certain methods which he must study out in detail, and upon which he must experiment and make written reports. In this work he is guided by the professors and fellows, and assisted by the other students, whom he must in turn assist when practicable. In this way every student acquires detailed knowledge of

certain typical operations and makes at least one original investigation and at the same time gains a fair general experience of many of the important methods in use.

Illustrations, Museums, Societies, Etc.

In addition to the usual projection apparatus and a collection of over two thousand lantern slides, the department has a standard motion picture projector and has made arrangements with the U.S. Bureau of Mines and other sources whereby several large series of mining films are available for class use. There is also a good departmental library, including selected trade catalogues, etc.

The McGill University Mining and Metallurgical Society meets at stated periods to hear and discuss papers on mining and correlated subjects given by men prominent in the industry. The Society has been made a students' section of the Canadian Institute of Mining and Metallurgy and its undergraduate members are therefore student members of the Institute, and receive its publications. Papers read before the Mining Society or submitted as Summer Essays may be entered in competition for all students' prizes offered by the Canadian Institute of Mining and Metallurgy, or the Engineering Institute of Canada. They will not be published unless the consent of all interested persons is first secured.

Field School in Mining

294. The summer vacation field class, instituted in 1898, is now a fixed part of the course. All students in Mining in regular course are required to attend this class at the end of the Third Year.

The work will be confined to an intensive study of one or more districts with, if conditions permit, visits to nearby districts. The student will be guided by members of the staff and will be required to work in a mine or ore dressing plant for at least two months. He will be required to submit his notes at the beginning of the fourth year and to submit an essay on some phase of the work.

Courses for the Degree of Master of Science

A. *Undergraduate Course open to Graduate Students who have not already taken it as undergraduates.*

1. Mining Engineering. Course 297. (See page 316.) The whole of this course of three lectures per week for two terms, or selected portions of it (methods of mining), is suitable as part of the require-

ments for the M.Sc. degree for students who have not taken this course while undergraduates .....Professor McBride.

B. *Advanced courses open to Graduate Students only.*

2. Works Organization and Management. With especial reference to Mining and Ore Dressing establishments. One lecture per week for one term.....Professor McBride.

3. The Theory of Rock Crushing and the Determination of the Efficiency of Rock Crushing Appliances.

One lecture per week for one term.....Professor Bell.

4. Rock Crushing Laboratory. Advanced students who wish to supplement course No. 3 by additional laboratory work will be given one or two laboratory periods of two hours each per week for one term.....Professor Bell and Mr. Erlenborn.

5. The Settling of finely divided Minerals in Water. Theories of classification and settling; the effect of temperature and of various electrolytes, colloids and flocculents; the calculation of settling rates and the design of settling tanks. Two lectures and one laboratory period for one term.....Professor Bell.

6. Classification Laboratory. Advanced students who wish to supplement course No. 5 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

7. Filtration in Ore Dressing and Cyanidation. Theoretical and practical conditions governing the removal of finely divided and semi-colloidal minerals from water and dilute solutions by means of mechanical filtration apparatus. One lecture and one laboratory period per week for one term.....Professor Bell and Mr. Erlenborn.

8. Filtration Laboratory.—Advanced students who wish to supplement course No. 7 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

9. The Cyanidation of Gold and Silver Ores. Advanced studies of the theory and practice of cyanidation. One lecture per week for one term.....Professor Bell.

10. Cyanidation Laboratory. Advanced students who wish to supplement course No. 9 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

11. The Theory and Practice of Flotation. Advanced studies in flotation, surface tension, etc. Two lectures per week for one term. Professor Bell or Mr. Erlenborn.

12. Flotation Laboratory. Advanced students who wish to supplement course No. 11 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

Note.—The department reserves the right to substitute tutorial instruction in place of set lectures when the classes are small enough to warrant the change. It is also prepared to increase the amount of work in certain of the courses when desirable.

DEPARTMENT OF PHYSICAL EDUCATION

Director, Department of Physical Education:—Arthur S. Lamb.

University Medical Officer:—F. W. Harvey.

Athletics Manager:—D. S. Forbes.

Track Coach and Ass't Physical Director:—F. M. Van Wagner.

Assistant Physical Director:—Hay Finlay.

In order to promote as far as possible the physical welfare of the student body, all First and Second Year students, and all students of other Years, coming to the University for the first time, will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of all Years who wish to engage in athletic activities, are also required to be physically examined. The hours for this examination will be announced at registration.

Each student at the time of examination is given a card which entitles him to take part in certain forms of activity. Students are classified as

(*a*) Fit for all forms of physical exercise.

(*b*) Fit for a limited number of forms of exercise.

(*c*) Fit for gymnasium work only.

(*d*) Fit for remedial gymnastics, or temporarily unfit.

(*e*) Unfit for any form of physical exercise.

At the time of examination each student will be asked to fill in a card indicating his choice of physical activity, which he will be allowed to follow, unless debarred for medical reasons, in which case he will be given a further choice among other recognized but less strenuous forms of exercise or will do gymnasium work as the case may require.

Physical education is compulsory for all students of the first two years. Two hours per week will be devoted to it.*

Any student participating in competitive athletics may be excused from other forms of exercise during the season of training, providing that this is performed to the satisfaction of the Director.

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*Note.—Owing to lack of accommodation this requirement is suspended for the session 1928-29.

Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the session the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, either by taking a supplemental school in September or by repeating the course in full.

At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of the Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the Faculty.

No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of the Faculty and approved by the Committee on Physical Education.

Not less than one month before the conferring of degrees in each session, the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculty, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

During the session and including the Christmas holidays, all teams and individual *students desiring to participate in "outside"* athletics* must first apply to the Captain or Manager of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

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* Outside athletics is interpreted to mean those forms of athletics over which the Athletic Board of the University or the Canadian Intercollegiate Athletic Union does not have control.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examination, etc., such student shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

All students intending to take part in intercollegiate competitions must first fill out an eligibility certificate and hand it in to the team manager or at the athletic office at least seven days before the competition takes place.

(For further regulations see handbook published by the Athletic Board.)

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only. A leaflet concerning this service and the general work of the Department, together with the requirements in physical education for all students, will be distributed at the opening of the session.

DEPARTMENT OF PHYSICS

DIRECTOR:—A. S. EVE.

PROFESSORS:—H. T. BARNES. L. V. KING. A. N. SHAW.

ASSOCIATE PROFESSORS:—D. A. KEYS. H. E. REILLEY.

ASSISTANT PROFESSORS:—E. S. BIELER. J. S. FOSTER.

LECTURER IN ASTRO-PHYSICS:—A. V. DOUGLAS.

DEMONSTRATORS:—N. CAM. T. N. WHITE. H. G. I. WATSON. A. L. PATTERSON. J. K. L. MACDONALD. J. M. YOUNG. F. T. DAVIES. H. W. HARKNESS.

INSTRUCTOR IN LABORATORY TECHNIQUE:—H. T. PYE.

First Year (Architecture).

44. GENERAL COURSE. (Arts No. 1.) Two hours Wednesday and Friday at 2 p.m.—Dr. Keys.

Text-book:—Kimball's College Physics (Holt).

45. LABORATORY COURSE. (Arts No. 1.) Two hours per week—2-4 Tuesday or 4-6 Wednesday.—Dr. Keys.

Text-book:—Laboratory Manuscripts (Renouf Pub. Co.).

First Year.

311. HEAT, SOUND AND LIGHT. (Arts No. 2.) Two hours per week.—Dr. Shaw.

Text-book:—Duncan & Starling's Heat, Light and Sound (Macmillan).

312. LABORATORY COURSE. (Arts No. 2.) Two hours per week. See time-table of sections.....Dr. Keys.

Text-book:—Laboratory Manuscripts, Barnes & Wheeler (Renouf Pub. Co.).

Second Year.

315. ELECTRICITY AND MAGNETISM. (Arts 3A.) Two hours per week.—Dr. Eve.

316. LABORATORY COURSE. (Arts 3A.) Two hours per week.—Dr. Keys.

Text-books:—Duncan and Starling, Electricity and Magnetism (Macmillan's); Laboratory Manuscripts (Renouf Publishing Co.).

Third Year.

318. ELECTRICITY. (Arts 6C.) Two hours per week; second term. For students in Third Year Electrical Engineering.—Dr. Bieler.

See also course in Engineering Physics, page 272; and Physics, Faculty of Arts, page 202.

DEPARTMENT OF SURVEYING AND GEODESY

ASSISTANT PROFESSORS:—{ A. J. KELLY. / JAMES WEIR.

DEMONSTRATOR:— ————————

This course is designed to give the student a theoretical and practical training in the methods of plane and geodetic surveying, in the field work of engineering operations, and in practical astronomy in its application to geodesy. The course is divided as follows:—

Second Year.

346. SURVEYING. Chain and angular surveying; the construcction, adjustment, use and limitations of the transit, level, micrometer, compass and minor field and office instruments; railway circular and transition curves; planimeter and pantograph; general topography; levelling; contour surveying; stadia surveying; photographic surveying; land systems of the Dominion and provinces.—Mr. Kelly.

Text-book:—Breed and Hosmer's Principles and Practice of Surveying, Vol. I.

347. FIELD WORK. (1) Compass and chain, compass and micrometer, and chain surveying.

(2) Differential, profile, topographic and quantity levelling.

(3) Azimuth and deflection angle traversing, accurate methods of angle measurement, and stadia surveying.

348. MAPPING. Drafting from field notes of chain and stadia surveys; plotting topographical features; tinting maps with water-colours. Plotting photographic surveys.

Third Year.

351. MAP PROJECTIONS. Graphical determination of spherical triangles; spherical projections, and the construction of maps—Mr. Weir.

Text-books:—Hinks' Map Projections.

352. SURVEYING. Theory and use of instruments; hydrographic surveying; the use of the plane table; mine surveying; barometric and trigonometric levelling; elements of practical astronomy.—Mr. Kelly.

Text-book:—Breed and Hosmer's Principles and Practice of Surveying, Vol. II.

Reference book:—Durham's Mine Surveying.

353. SURVEYING. Theory and use of instruments; the use of the plane table; surveying; magnetic surveying; hydrographic surveying; barometric and trigonometric levelling; elements of geodetic surveying; elements of practical astronomy.—Mr. Weir.

Text-books:—Breed and Hosmer's Principles and Practice of Surveying, Vol. II.; Hosmer's Practical Astronomy.

354. FIELD WORK. (1) The adjustments of the instruments; (2) the preliminary, topographic and location surveys for a railway, including simple, compound, transition and vertical curves, profile levelling, cross-sectioning for construction, and plotting of field notes; (3) a topographic survey with the stadia transit and plane table; (4) a hydrographic survey of a river channel, including measurment of discharge; (5) a survey at night illustrating underground methods; (6) astronomical observations with engineer's transit.

Fourth Year.

359. GEODESY. The determination of time, latitude, longitude and azimuth; figure of the earth, measurements of base lines and triangulation systems; adjustment and reduction of observations.—Mr. Weir.

Text-book:—Hosmer's Geodesy.

361. FIELD WORK. (1) Determination of latitude, (*a*) by transit and sextant observations of Polaris, (*b*) by zenith telescope, (*c*) by noon observations with transit and sextant; (2) determination of azimuth, (*a*) by equal altitude observations of the sun, (*b*) by observations of elongation of Polaris, (*c*) by observation of a circumpolar star with engineer's transit, (*d*) by means of solar attachments and solar compass; (3) determination of time, (*a*) by equal altitude observations of the sun with sextant and transit, (*b*) by observations of the meridian passage of stars with astronomical transit; (4) determination of longitude by clock comparison; (5) base line measurements; (6) precision levelling; (7) measurement of angles by geodetic methods; (8) plane table surveys.

360. GEODETIC LABORATORY. The following determinations of the constants and errors of surveying instruments are made in the geodetic laboratory by the Fourth Year students in the Civil Engineering course:—Measurement of (1) magnifying power, (2) eccentricity of circles, (3) inclination error in astronomical transits by nadir observations; determinations of (1) gravity by means of the reversible pendulum, (2) errors of run of theodolite microscopes, (3) constants of steel tapes, (4) scale value of level vials, (5) collimation error of astronomical transits by fixed collimators and by nadir method; investigation of the error of graduation of (1) steel bars, (2) steel tapes, (3) transit circles, (4) the testing of the aneroid barometers.

See also page 601.

FIELD WORK

Field work is required of all students entering the Second Year, of students entering the Third Year in the courses of Civil and Mining Engineering, and the Fourth Year in Civil Engineering. The work will begin in 1929 on or about April 30th and will continue for four weeks.

Students entering Second and higher Years from other Universities or from other Faculties and who cannot attend the above course in Field Work, must attend Special Summer Schools, details of which are given on page 274.

All students are required to keep complete field notes, and to prepare maps, sections and estimates for their own surveys. This office work is principally done during the regular summer school session.

REGULATIONS CONCERNING PREREQUISITE SUBJECTS, STANDING AND PROMOTION

(1) Students proceeding to a degree shall be classed as Undergraduates or Conditioned Undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session, passed the examinations in all the subjects of their course, or who, at the opening of the following session, have removed all conditions by passing supplemental examinations in the subjects in which they had failed. Conditional Undergraduates are those who have failed to remove all of their conditions as above.

(2) No student proceeding to a degree shall be allowed to take any subject, unless he has previously passed, or secured exemption in, all prerequisite subjects.*

(3) No Conditioned Undergraduates shall be permitted to take any Third or Fourth Year work until all First or Second Year subjects respectively shall have been passed. The Faculty may, however, waive this rule in special cases on recommendation of the Committee on Registration, Standing and Promotion.

(4) Conditioned Undergraduates proceeding to a degree must follow a course of study approved by the Faculty on the recommendation of the committee on Registration, Standing and Promotion. They may be required to repeat subjects in which they have passed, but in which their standing has been low.

(5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the head of each department concerned, and have also had their courses approved by the Committee on Registration, Standing and Promotion.

(6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he shall not be given credit for subjects taken in contravention of the prerequisite rule, until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by a unanimous vote of the Faculty.

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* Prerequisite subjects are those which, in the opinion of the Faculty, must be mastered before the subjects to which they are prerequisite can be intelligently studied. (See pages immediately following.)

Concurrent subjects are related subjects which should be studied in the same session.

No Fourth Year student shall be allowed a supplemental or special supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.

PREREQUISITE AND CONCURRENT SUBJECTS

No.	Year	Subject	Prerequisite	Concurrent
1	II	Arch Design A	18, 33, 38	6
2	III	" " B	1	7
3	IV	" " C	2	8
4	V	" " D	3	
5	I	Elements of Architecture		
6	II	Elements of Composition		
7	III	Theory of Design	1	
8	IV	Theory of Planning	1	
9	III or IV	Ornament and Decoration	34, 39	
10	III or IV	" " "	34, 39	
11	III or IV	" " "	34, 39	
12	III or IV	" " "	34, 39	
14	II	History of Arch. (Classic)		34
15	III or IV	" " (Mediaeval)		35
16	III or IV	" " (Renaissance)		36
17	V	" " (Modern))	14	
18	I	Architectural Geometry I		
19	II	Arch. Geometry II	18	
22	IV or V	Hygiene of Buildings		
23	IV or V	Heating and Ventilation		
24	II	Building Construction		
25	II	Building Details		24
26	II	Architectural Engineering I		
27	II	Arch. Engineering I (Draughting)		26
28	III or IV	Architectural Engineering II A	26	
29	III or IV	Arch. Eng. II A (Draughting)	26	28
30	III or IV	Architectural Engineering II B	26	
31	III or IV	Arch. Eng. II B (Draughting)	26	30
32	V	Professional Practice	24	
33	I	Architectural Drawing		5
34	II	" "		
35	III	" "		
36	IV	" "		
37	V	Historical Drawing		
38	I	Freehand Drawing		
39	II	" "	38	
40	III	" "	39	
41	IV	" "	40	
42	IV	Modelling		
43	V	"	42	
44	I	Physics (Arts)		
45	I	Physics Lab. (Arts)		
Arts 1	I	Algebra		
" 1	I	Trigonometry		
46	II	Architectural Essay		
47	III	" "		
48	IV	" "		
49	V	" "		
50	II, III, IV & V	Summer Work		
51	I	General Chemistry		52
52	I	" " Lab		51
53	II	General Chemistry	51, 52, 311, 312	
54	III	Inorg. Qual. Anal.—Summer School (Chem. Eng. and Met. Eng. Students)	53	55
55	III	Inorg. Qual. Anal. Lab.—Summer School (Chem. Eng. and Met. Eng. Students)	53	54

No.	Year	SUBJECT	Prerequisite	Concurrent
56	III	Organic Chemistry	53	57
57	III	" " Lab		56
58	III	Physical Chemistry	53	
59	III	Inorg. Qual. Anal	53	60
60	III	" " " Lab		59
61	III	Inorg. Quant. Anal. and Lab.(Chem. Eng.)	53	
62	III	" " " " " (Met. Eng.)	53	
64	IV	Advanced Organ, Chem	56, 57	65
65	IV	Advanced Organic Laboratory	56, 57	64
66	IV	Physical Chem. and Lab	58	
67	IV	Inorg. Lab	61, 62	
68	IV	Industrial Chemistry, Inorganic	61, 62	
69	IV	Industrial Chemistry, Organic	61, 62	
70	IV	Applied Electro-Chem	53	
71	IV	Inorg. Quant. Anal. (Mining Students)	59, 60	
72	IV	Adv. Inorg. Chemistry	58	
73	IV	Food Chemistry	56, 57	65
74	IV	History of Chemistry	53, 56	
75	IV	Colloid Chemistry	56, 57,58,59,60	
80	I	Engineering Problems		
81	II	Materials of Construction		
82	III	Sanitary Science		
83	II	Mechanics	194	198
85	III	Highway Engineering		
86	III	Mechanics	83, 198	
87	III	Strength of Materials	83, 198	
88	III	" " Lab		87
89	III	Foundations		87
90	III	Structural Engineering		87
92	III	Railway Engineering	83,346,347,348	
93	III	" "	83,346,347,348	92
94	IV	Theory of Structures	87	
95	IV	Strength of Materials	87	
96	IV	Bridge Design	90	94
96a	IV	" "	90	94
97	III & IV	Hydraulics	83	
98	III & IV	" Lab		97
99	IV	" Machines		97
100	IV	Hydraulics and Lab. (Short Course)	83	
101	IV	Municipal Engineering	97, 98	
102	IV	Water Supply & Sewerage	82, 97, 98	
103	IV	Waste Disposal		
104	IV	Civic Administration		
111	III & IV	Elements of Elec. Eng	198, 315, 316	
112	III & IV	Elec. Eng. Lab. (Elementary)		111
113	III	Electrical Engineering	198	
114	III	Elec. Engineering Lab		113
117	IV	Electrical Engineering	113, 114, 201	
118	IV	Elec. Eng. Lab. (Elec. Eng. Students)	113	117
120	IV	Elec. Light and Power Distribution		117, 118
121	IV	Electric Traction		117, 118
122	IV	Electrical Designing	232	117, 118
123	IV	Applications of Electricity	113	117
124	IV	Elec. Measurements and Lab	113	
125	IV	Communication Engineering	201, 113	
131	II	English		
132	II	Summer Reading		
133	III	Summer Reading or Essay		
134	IV	Summer Essay		
141	III	Geology, General		
142	III	Mineralogy	53	
143	III	Mineralogy, Determinative	53	
146	IV	Petrography and Lab	141	
147	IV	Petrography (Advanced)	141, 142, 143.	

No.	Year	SUBJECT	Prerequisite	Concurrent
148	IV	Ore Deposits and Economic Geol.	141	
149	IV	Geology of Canada	141	
151	IV	Crystallography	142	
152	IV	Geology, Historical	141, 142, 143..	
153	IV	Geology Fieldwork (with 294)	141, 142, 143..	
170	I	History of Science		
171	III	Elements of Political Economy		
172	IV	Canadian Economic Problems	171	
175	IV	Engineering Law		
191	I	Geometry and Trigonometry		
192	I	Algebra		
193	I	Geometry and Trigonometry		
194	I	Mechanics		
197	II	Analytic Geometry		
198	II	Calculus	192	
201	III	Mathematics	198	
218	II	Mechanics of Machines	191, 192, 194..	
223	III	Mech. Eng. Lab. (Elec. Eng. Students)..		226
224	III	Mechanics of Machines	83, 218	
225	III	Machine Design		87, 231 or 232
226	III	Mech. Eng. (General Course)		228
227	III	" " (Mech. Eng. Students)		228
228	III	" " Lab		226, 227
229	III	Thermodynamics	198	
231	III	Mech. Drawing (Mech. Eng. Stud.)		225
233	III	Summer School (Mech. Eng. Students)		
236	III	Machine Shop Work		
237	III	Industrial Engineering		
238	III	Accounting		
240	IV	Mechanics of Machines	224	
241	IV	Designing	225, 231	242
242	IV	Mach. Design (Mech. Students)	225	
243	IV	Mach. Design (Elec. Students)	225	
244	IV	Power Plant Design	227	
247	IV	Heat. and Ventilation of Buildings	227	244
249	IV	Mech. Eng. Lab	227, 228	
249a	IV	Mech. Eng. Lab. (alt.)	227, 228	
251	IV	Thermodynamics	228, 229	
252	IV	Machine Shop Work	236	
253	IV	Industrial Engineering	238	
254	IV	Industrial Administration		252
257	IV	Experimental Engineering	227, 228	249
258	IV	Industrial Relations		
261	III	Elem. Metallurgy and Laboratory	53	
262	III	Elem. Metal. (Chem. & Mining Eng. Students)	53	
263	III	Fire Assaying	53	264
264	III	Fire Assaying Laboratory	53	263
265	III	Metall. Calculations		261
267	IV	Metall. Field School		
271	IV	Metallurgy (General)	261	
272	IV	" (Advanced)	261	271
273	IV	Fire Assay. & Lab. (Chem. Eng. Stud.)	262	
274	IV	Metall. Lab. and Thesis	261	271
275	IV	Electro-Metallurgy and Lab	53	
277	IV	Metall. Colloquium	261	271
278	IV	Metall. Calculations and Design	265	272
279	IV	Metall. Analysis	61, 62	67
280	IV	Metallography		
281	IV	Metallographic Lab		
282	IV	Metallog. & Lab. (Chem. Eng. Students)..		
283	IV	Metall. Calc. Mining Students	262	271
284	IV	" Lab. " "	262	271
291	III	Mining Engineering	53	
292	III	Ore Dressing		142, 226

No.	Year	SUBJECT	Prerequisite	Concurrent
293	IV	Mine Mapping	346, 348	
294	III	Mining Field School	141	
295	III	Crushing and Grinding Machinery		226
297	IV	Mining Engineering	226, 291	
298	IV	Mining Design	81, 226, 300	297
300	IV	Ore Dressing and Milling	292	
301	IV	Mining Colloquium		297, 300
305	IV	Ore Dressing Laboratory	292	300
306	IV	Ore Dressing Lab. (Thesis Work)	264, 305	
311	I	Physics		
312	I	Physical Laboratory		311
315	II	Physics		
316	II	Physical Laboratory		315
318	III	Physics		
340	I	Mechanical Drawing		
341	I	Descriptive Geometry		
342	I	Freehand Drawing		
343	I	Lettering		
344	II	Mechanical Drawing		
345	II	Descriptive Geom. and Perspective	341	
346	II	Surveying	191, or Arts1	
347	II	Surveying Fieldwork		
348	II	Mapping	343	
351	III	Map Projections	345	
352	III	Surveying (Miners)	346, 347	
353	III	Surveying (Civils)	346, 347	
354	III	Surveying Fieldwork	346, 347	
359	IV	Geodesy	353	
360	IV	Geodetic Laboratory		359
361	IV	Geodetic Fieldwork	353, 354	

CONVERSE OF PREREQUISITE SUBJECTS

No.	Year	Prerequisite Subjects	Numbers of Subject to which subjects in 3rd column are prerequisite
1	II	Arch. Design A	2, 7, 8
2	III	" " B	3
3	IV	" " C	4
4	V	" " D	
5	I	Elements of Architecture	
6	II	Elements of Composition	
7	III	Theory of Design	
8	IV	Theory of Planning	
9	III or IV	Ornament and Decoration	
10	III or IV	" "	
11	III or IV	" "	
12	III or IV	" "	
14	II	History of Arch. (Classic)	17
15	III or IV	" " (Mediaeval)	
16	III or IV	" " (Renaissance)	
17	V	" " (Modern)	
18	I	Architectural Geometry I	1, 19
19	III	Architectural Geometry II	
22	IV or V	Hygiene of Buildings	
23	IV or V	Heating and Ventilation	
24	II	Building Construction	32
25	II	Building Details	
26	II	Architectural Eng. I	28, 29, 30, 31
27	II	Architectural Eng. I (Drafting)	
28	III or IV	Architectural Eng. II A	
29	III or IV	Architectural Eng. II A (Drft.)	
30	III or IV	Architectural Eng. II B	
31	III or IV	Architectural Eng. II B (Drft.)	
32	V	Professional Practice	
33	I	Architectural Drawing	1
34	II	" "	9, 10, 11, 12
35	III	" "	
36	IV	" "	
37	V	Historical Drawing	
38	I	Freehand Drawing	1, 39
39	II	" "	9, 10, 11, 12, 40
40	III	" "	41
41	IV	" "	
42	IV	Modelling	43
43	V	"	
44	I	Physics (Arts)	
45	I	Physics Lab. (Arts.)	
46	II	Arch Essay	
47	III	" "	
48	IV	" "	
49	V	" "	
50	II III IV & V	Summer Work	
Arts	I	Algebra	
Arts I	I	Trigonometry	346
51	I	General Chemistry	53,
52	I	" " Lab.	53
53	II	General Chemistry	54,55,56,58,59,61.62. 70, 74, 142, 143, 261, 262, 263, 264, 275, 291
54	III	Inorg. Qual. Anal. (Summer Sch.) (Chem. Eng. and Met. Eng.)	
55	III	Inorg. Qual. Anal. Lab. (Summer Sch.) (Chem. Eng. and Met. Eng.)	
56	III	Org. Chemistry	64, 65, 73, 74, 75
57	III	" " Lab.	64, 65, 73, 75
58	III	Physical Chem.	66. 72, 75
59	III	Inorg. Qual. Anal	71, 75
60	III	" " " Lab.	71, 75
61	III	" Quant. Anal	67, 68, 69, 279

No.	Year	Prerequisite Subjects	Numbers of Subjects to which subjects in 3rd column are prerequisite
62	II	Inorg. Quant. Anal. Lab.	67, 68, 69, 279
64to 75	IV	Year Subjects	
80	I	Engineering Problems	
81	II	Mat. of Constrn	298
82	III	Sanitary Science	102
83	II	Mechanics	86, 87, 92, 97, 100, 224
85	III	Highway Engineering	
86	III	Mechanics	
87	III	Str. of Materials	94, 95
88	III	" " Lab	
89	III	Foundations	
90	III	Structural Engineering	96
92	III	Railway Engineering	
93	III	" "	
94to 96	IV	Year Subjects	
97	III & IV	Hydraulics	101, 102
98	III & IV	" Lab	101, 102
99to 104	IV	Year Subjects	
111	III & IV	Elem. Elec. Eng	
113	III	Elec. Eng	117, 118, 123
114	III	Elec. Eng. Lab	117
117 to 125	IV	Year Subjects	
132	II	English Summer Reading	
133	III	Summer Reading	
134	IV	Year Subject	
141	III	Geology, General	146, 147, 148, 149, 152 153, 294
142	III	Mineralogy	147, 151, 152, 153
143	III	Mineralogy (Determinative)	147, 152, 153
146 to 153	IV	Year Subjects	
170	I	History of Science	
171	III	Economics	172
172	IV	Eng. Economics	
175	IV	Eng. Law	
191	I	Geometry and Trigonometry	218, 346
192	I	Algebra	198, 218
193	I	Geometry and Trigonometry	
194	I	Mechanics	83, 218
197	II	Anal. Geometry	
198	II	Calculus	86, 87, 111, 111a, 113 201, 229
201	III	Mathematics	117, 124, 125
218	II	Mechanics of Machines	224
223	III	Mech. Eng. Lab. (Elec. Eng. Course)	
224	III	Mech. of Machines	240
225	III	Machine Design	241, 242, 243
226	III	Mech. Eng. (General Course)	297, 298
227	III	" " (Mech. Eng. Stds.)	244, 245, 246, 247, 249 249a, 257
228	III	" " Lab	249, 249a, 251, 257
229	III	Thermodynamics	251
231	III	Mech. Drawing	241
233	III	Summer School (Mech. Eng. Students)	
236	III	Machine Shopwork	252
237	III	Industrial Engineering	254
238	III	Accounting	253
240 to 258	IV	Year Subjects	
261	III	Elem. Metallurgy & Lab	271, 272, 274, 277,

No.	Year	Prerequisite Subjects	Numbers of Subjects to which subjects in 3rd column are prerequisite
262	III	Elem. Metall. (Chem. and Mining Eng. Stud.)	273, 283, 284
263	III	Fire Assaying	
264	III	Fire Assaying Lab	306
265	III	Metal. Calculations	278
267 to 284	IV	Year Subjects	
291	III	Mining Eng	297
292	III	Ore Dressing	305
293	IV	Mine Mapping	
294	III	Mining Field School	
295	III	Crushing and Grinding Machinery	
297 and 298	IV	Year Subjects	
300	IV	Ore Dressing and Milling	298
305	IV	Ore Dressing Lab	306
301 and 306	IV	Year Subjects	
311	I	Physics	53,
312	I	Physical Lab	53,
315	II	Physics	111,
316	II	Physical Lab	111,
318	III	Physics	124, 125
340	I	Mechanical Drawing	
341	I	Desc. Geom	345
342	I	Freehand Drawing	
343	I	Lettering	348
344	II	Mechanical Drawing	
345	II	Desc. Geometry and Perspective	351
346	II	Surveying	92, 293, 352, 353, 354
347	II	Surveying Fieldwork	92, 352, 353, 354
348	II	Mapping	92, 293
351	III	Map Projections	
352	III	Surveying (Miners)	
353	III	" (Civils)	359, 361
354	III	" Fieldwork	361
359 to 399	IV	Year Subjects	

EXAMINATION TIME TABLES.

I.—Supplemental Examinations.

Supplemental examinations for all subjects of the First, Second and Third Years Applied Science are held in September. A schedule of these examinations may be obtained from the Dean.

II.—Sessional Examinations.

Note:—The following numbers correspond with the subjects in the prerequisite list and the departmental descriptions. Examinations begin at Nine A.M. and Two P.M., and normally last three hours.

Time Table, First Term Examinations (Subject to Revision).

Date		First Year	Second Year	Third Year	Fourth Year
January 14th	A.M.	.....	.....	61, 97, 98, 201	67, 71, 97, 98, 273, 359
" "	P.M.	.....	.....	.....	.....
January 15th	A.M.	.....	.....	86,, 352	104, 120, 149, 258, 280, 282
" "	P.M.	.....	.....	.....	.....
January 16th	A.M.	191	197	11, 82, 295, 351	11, 100
" "	P.M.	44	.....	58	172
January 17th	A.M.	.....	.....	59, 92, 237	22, 70, 103, 146
" "	P.M.	.....	.....	261, 262	68

SECOND TERM TIME TABLE EXAMINATIONS (Subject to Revision)

(First three years in Engineering and the whole course in Architecture)

DATE		FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH AND FIFTH YEARS
April 17th	A.M.	341	345	56, 85, 224, 238, 292, 318	175
" "	P.M.	.....	.....	.....	.....
April 18th	A.M.	80, 33	81	90, 113	23
" "	P.M.	.....	.....	352	.....
April 19th	A.M.	5, 51	53, 26	28, 226, 227	17, 28
" "	P.M.	52	.....	223, 228	.....
April 20th	A.M.	193	346	291	..
" "	P.M.	Arts 1	.....	.....	32
April 22nd	A.M.	192	315	87, 12	12
" "	P.M.	Arts 1	.....	.....	.....
April 23rd	A.M.	194	14, 316	15, 88	4, 15
" "	P.M.	.....	.....	265	4
April 24th	A.M.	18	198	61, 62, 141, 225	4
" "	P.M.	.....	.....	141	4
April 25th	A.M.	Arts 44, 311	19, 218	171	4
" "	P.M.	.....	.....	.....	4
April 26th	A.M.	312	6, 83	142, 229, 353	4
" "	P.M.	.....	.....	.....	4
April 27th	A.M.	.....	24,	58, 89, 111	4
" "	P.M.	.....	.....	263	4

SECOND TERM EXAMINATIONS (Subject to Revision)

DATE		FOURTH YEAR
April 27th	A.M.	111
May 1st	A.M.	175
" "	P.M.	75
May 2nd	A.M.	67, 122, 152, 244, 271
" "	P.M.	.....
.....	.....	.....
May 3rd	A.M.	64, 95, 121, 247, 272. 283
" "	P.M.	.....
May 4th	A.M.	73, 125, 251, 253, 300
" "	P.M.	.....
May 5th	A.M.	69, 94, 123, 148, 240, 254
" "	P.M.	.....
May 7th	A.M.	72, 101, 102, 147, 249, 249a
" "	P.M.	
May 8th	A.M.	66, 96, 96a, 242, 243, 275
" "	P.M.	297-298
May 9th	A.M.	74, 117, 257, 299
" "	P.M.	.....
May 10th	A.M.	99, 124, 278
" "	P.M.	.....

III.—THE LECTURE TIME TABLES.

Complete time tables for all lectures and laboratory work are bulletined in the Engineering Building.

FACULTY OF MEDICINE

HISTORICAL SUMMARY

(Faculty of Medicine)

1821-1927

1744 James McGill, born October 6th (Founder's Day). Died 1813.

1801–02 Royal Institution for Advancement of Learning contemplated by Provincial Act of Parliament.

1811 Will by James McGill leaving landed estate and £10,000 to Royal Institution for Advancement of Learning for founding a University.

1818 Royal Institution for Advancement of Learning incorporated. Montreal General Hospital opened on original site on St. Lawrence Street.

1821 Royal Charter granted to the Royal Institution for the Advancement of Learning for the foundation of McGill College. Corner-stone of new Montreal General Hospital laid.

1822–24 Montreal Medical Institution organized as a Medical School by Officers of Montreal General Hospital. At opening lecture at No. 20 St. James Street on October 28, 1824, there were four teachers and twenty-five students.

1829 Estate of James McGill surrendered by residuary legatee. First meeting of Governors at Burnside House. Montreal Medical Institution "engrafted upon" McGill University as its Medical Faculty. First session of Faculty of Medicine.

1831 Medical Faculty petitioned Legislature for permission to grant degrees, and framed statutes to fulfil conditions of charter for same by order of Solicitor-General.

1832 Statutes approved and permission to confer degrees granted to Medical Faculty, and Professorships granted by Crown to Drs. Holmes, Caldwell, Robertson and Stephenson.

1833 First University degree conferred in Medical Faculty upon W. Logie.

1836–37 Faculty removed to building next to present Bank of Montreal.

1840 Faculty removed to St. George Street.

1842 Arts Building erected on University grounds, where medical lectures were held 1845-51.

1852 Faculty removed to Côté Street.

1855 Sir William Dawson appointed Principal.

1860 Geo. W. Campbell appointed Dean, serving until 1882.

1872 First independent Medical Faculty building on University ground.

Graduation of William Osler.

1882	Geo. W. Campbell Memorial Fund for Medical Faculty ($50,000); Leanchoil Endowment Fund for Medical Faculty (Lord Strathcona, $50,000).
	R. P. Howard appointed Dean.
1885	New laboratories erected in Medical Building (Lord Strathcona, $100,000).
1889	Robert Craik appointed Dean—George Ross, Vice-Dean.
1893	Sir William Peterson appointed Principal.
	Pathological Laboratory erected (John H. R. Molson, $60,000); Chairs of Hygiene and of Pathology endowed (Lord Strathcona, $100,000).
	Mrs. Mary Dow Endowment Fund presented to Medical Faculty ($10,000).
1894	Royal Victoria Hospital opened (Lord Mount-Stephen and Lord Strathcona).
1898–01	Medical Faculty Building reconstructed and enlarged with new laboratories, etc. (Lord Strathcona, $100,000.)
	Joseph Morley Drake Chair of Physiology founded ($25,000).
1901	Thomas G. Roddick appointed Dean.
1906	Alexandra Hospital for Infectious Diseases opened.
1907	Medical Building partly destroyed by fire.
1908	F. J. Shepherd appointed Dean.
1909–11	New Medical Building (as at present) erected. (Lord Strathcona, $450,000.)
1911	Robert Reford endowment of Department of Anatomy ($100,000).
	Arthur A. Browne Memorial Fund for Research established ($10,000).
	Dr. James Douglas research fellowship in Pathology founded ($25,000).
1912	Eddie Morrice Laboratory of Pharmacology opened (D. Morrice, $14,000).
	James Cooper Endowment Fund established for Internal Medicine ($60,000).
1913	Graduates of the Faculty of Medicine subscribed $12,566 to meet fire loss.
1914	H. S. Birkett appointed Dean.
	No. 3 (McGill) General Hospital organized for Overseas service.
	New Foundling Hospital opened.
1916	Ross Memorial Pavilion opened by H.R.H. Duke of Connaught (J. K. L. Ross).
1917	Geo. Ross Endowment Fund for Medical Faculty presented.

1919 Sir William Macdonald bequeathed $500,000 to Medical Faculty.
Faculty of Dentistry established.

1920 Sir Arthur Currie appointed Principal.
Dr. J. W. Scane appointed Assistant Dean.
Sir William Osler's Medical Library bequeathed to McGill University.

1921 Centenary Celebration.
Friends and Graduates of McGill donated $4,000,000 to University.
Province of Quebec donated $1,000,000 to University.
Rockefeller Foundation granted $1,000,000 to Medical Faculty.
F. G. Finley appointed Dean.

1922 Laboratories for Biological Sciences opened.
Geo. E. Armstrong appointed Dean.
New Outpatient Department erected at Royal Victoria Hospital.

1923 Pathological Institute erected.
C. F. Martin appointed Dean.

1924 Rockefeller Foundation gave $500,000 to Medical Faculty to establish University Clinic in Department of Medicine at Royal Victoria Hospital.
Amalgamation of Western Hospital with the Montreal General Hospital.

1925 Erection of Royal Victoria-Montreal Maternity Pavilion.
Roddick Memorial Gates opened.

1926 Closing of old Montreal Maternity Hospital.

1927 Sub-department of Industrial Medicine formed with Industrial Clinic at the Montreal General Hospital. (Grant of $25,000 from Metropolitan Life Insurance Company.)
Inter-Hospital Commission formed for purposes of administration.

OFFICERS AND MEMBERS OF THE FACULTY SINCE ITS ORIGIN

DEANS

Dr. R. Robertson, official head of the Montreal Medical Institution, 1823, was followed by Dr. John Stephenson in 1829 as Registrar and official head of the Faculty up to 1842, when he was succeeded by Dr. A. F. Holmes with title of Secretary.

A. F. Holmes, 1854.
Geo. W. Campbell, 1860.
R. P. Howard, 1882.
Robert Craik, 1889.
George Ross (Vice-Dean), 1889.
Thomas G. Roddick, 1901.
Francis J. Shepherd, 1908.
Herbert S. Birkett, 1914.
F. G. Finley, 1921.
George E. Armstrong, 1922.
C. F. Martin, 1923.
(J. W. Scane, Assistant Dean, 1920-1922.)

REGISTRARS

John Stephenson, 1829.
Archibald Hall, 1842.
William Wright, 1864.
Robert Craik, 1869.
William Osler, 1877.
F. J. Shepherd, 1883 (Acting).
James Stewart, 1884.
R. F. Ruttan, 1891.
E. M. Eberts, 1902.
J. W. Scane, 1903.

Registrarship abolished—1923

SECRETARIES

J. C. Simpson, 1923.

MEDICINE

Chair of Medicine
(Founded 1824)

WILLIAM CALDWELL, 1824.
WILLIAM ROBERTSON, 1833.
ANDREW F. HOLMES, 1842.
R. P. HOWARD, 1860.
GEORGE ROSS, 1889.
JAMES STEWART, 1893.

Chair of Clinical Medicine
(Founded 1845)

JAMES CRAWFORD, 1845 and 1852.
ROBT. L. MACDONNELL, 1849.
STEPHEN C. SEWELL, 1850.
R. P. HOWARD, 1856.
DUNCAN C. MACCALLUM, 1860.
JOSEPH M. DRAKE, 1872.
GEORGE ROSS, 1872.
RICHARD L. MACDONNELL, 1889.
JAMES STEWART, 1891.

Chair of Medicine and Clinical Medicine
(Founded 1907)
(Chair of Medicine since 1923)

F. G. FINLEY, 1907-1924.
H. A. LAFLEUR, 1907-1919.
C. F. MARTIN, 1907.
J. C. MEAKINS, Professor and Director, 1924.
C. P. HOWARD, 1924.
W. F. HAMILTON, 1924.

SURGERY

Chair of Surgery
(Founded 1824)

JOHN STEPHENSON, 1824.
G. W. CAMPBELL, 1835.
GEO. E. FENWICK, 1875.
T. G. RODDICK, 1890.

Chair of Clinical Surgery
(Founded 1840)

JAMES CRAWFORD, 1845.
WILLIAM E. SCOTT, 1852.
DUNCAN C. MACCALLUM, 1856.
ROBERT CRAIK, 1860.
GEORGE E. FENWICK, 1867.
THOMAS G. RODDICK, 1876.
JAMES BELL, 1894.

Chair of Surgery and Clinical Surgery
(Founded 1907)
(Chair of Surgery since 1923)

JAMES BELL, 1907-1911.
GEO. E. ARMSTRONG, 1907-1923.
J. A. HUTCHISON, 1913-1923.
E. W. ARCHIBALD, Professor and Director, 1923.
A. T. BAZIN, 1923.

OBSTETRICS AND GYNÆCOLOGY

Chair of Obstetrics
(Founded 1824)

William Robertson, 1824.
John Racey, 1833.
Geo. W. Campbell, 1835.
Michael McCullogh, 1842.
Archibald Hall, 1854.
D. C. MacCallum, 1868.
Arthur A. Browne, 1883.
J. Chalmers Cameron, 1886.

Chair of Gynæcology
(Founded 1883)

William Gardner, 1883.
W. W. Chipman, 1910.

Chair of Obstetrics and Gynæcology

(Founded 1913)

W. W. Chipman, 1913.

ANATOMY

(Chair founded 1824)

John Stephenson, 1824.
Oliver T. Bruneau, 1842.
William E. Scott, 1856.
Francis J. Shepherd, 1883.
A. C. Geddes, 1913.
S. E. Whitnall, 1919.

CHEMISTRY

Chair of Chemistry

(Founded 1824)

Andrew F. Holmes, 1824.
Archibald Hall, 1842.
William Sutherland, 1849.
Robert Craik, 1867.
Gilbert P. Girdwood, 1879.
R. F. Rurtan, 1902.

Chair of Practical Chemistry
(Founded 1872)

Gilbert P. Girdwood, 1872.
R. F. Ruttan, 1894.

Chair of Bio-Chemistry

A. B. Macallum, 1920.
J. B. Collip, 1928.

INSTITUTES OF MEDICINE

Chair of Institutes of Medicine

(Founded 1824 and included the Departments of Physiology, Histology and Pathology)

JOHN STEPHENSON, 1824.
STEPHEN C. SEWELL, 1842.
ROBERT L. MACDONNELL, 1845.
WILLIAM FRASER, 1849.
JOSEPH M. DRAKE, 1868.
WILLIAM OSLER, 1874.

PHYSIOLOGY

(Founded 1824—endowed 1897)

WESLEY MILLS, 1886.
N. H. ALCOCK, 1911.
G. R. MINES, 1914.
JOHN TAIT, 1919.
BORIS P. BABKIN, 1928.

PATHOLOGY

(Founded 1892—endowed 1893)

J. GEO. ADAMI, 1892.
H. OERTEL, 1919.

PHARMACOLOGY

Chair of Pharmacology and Therapeutics

(Founded 1824)

ANDREW F. HOLMES, 1824.
ARCHIBALD HALL, 1835.
STEPHEN C. SEWELL, 1842.
A. HALL, 1849.
WILLIAM WRIGHT, 1854.
JAMES STEWART, 1883.
A. D. BLACKADER, 1891.

Chair of Pharmacology

H. G. BARBOUR, 1921.
R. L. STEHLE, 1924.

BOTANY

(Chair founded 1829)

ANDREW F. HOLMES, 1829.
DR. PAPINEAU, 1845.
J. W. DAWSON, 1855-56 and 1858-83.
JAMES BARNSTON, 1857-58.
D. P. PENHALLOW, 1883.
F. E. LLOYD, 1912.

MEDICAL JURISPRUDENCE

(Chair founded 1845)

WILLIAM FRASER, 1845.
FRANCIS BADGLEY, 1849.
FRANCIS C. T. ARNOLDI, 1850.
WILLIAM E. SCOTT, 1851.
WILLIAM WRIGHT, 1852.
R. PALMER HOWARD, 1854.
DUNCAN C. MACCALLUM, 1860.
GEORGE E. FENWICK, 1867.
WILLIAM GARDNER, 1875.
GEORGE WILKINS, 1883.
D. D. MACTAGGART, 1911.

HYGIENE AND PUBLIC HEALTH

(Chair founded 1871—endowed 1893)

GEORGE ROSS, 1871.
THOMAS G. RODDICK, 1873.
ROBERT T. GOFFREY, 1875.
WILLIAM GARDNER, 1879.
R. L. MACDONNELL, 1886.
ROBERT CRAIK, 1889.
WYATT JOHNSTON, 1902.
T. A. STARKEY, 1902.
A. G. FLEMING, Professor and Director of the Department of Public Health and Preventive Medicine, 1926.

OPHTHALMOLOGY AND OTO-LARYNGOLOGY

Chair of Ophthalmology and Otology
(Founded 1883)

FRANK BULLER, 1883.

Chair of Laryngology

(Founded 1893)

G. W. Major, 1893.
H. S. Birkett, 1895.

Chair of Oto-Laryngology

H. S. Birkett, 1906.

Chair of Ophthalmology

J. W. Stirling, 1906.
W. G. Byers, 1923.

CHAIR OF ZOOLOGY

E. W. MacBride, 1902.
Arthur Willey, 1910.

CHAIR OF HISTORY OF MEDICINE

Andrew MacPhail, 1907.

ENTRANCE REQUIREMENTS

A candidate for admission to the First Year of the Faculty of Medicine must present satisfactory evidence that he has completed *at least* two full years in a College or Faculty of Arts of a recognized University.

The two years of college work must include:—

Physics—One year of general college Physics with laboratory work.

Biology—One year of general Biology or Zoology with laboratory work. One half-year of Botany and one half-year of Zoology will be accepted, but not Botany alone.

Chemistry—Two years:—

(a) One full year of General Chemistry with laboratory work.

(b) One full course in Organic Chemistry with laboratory work.

(The course in Organic Chemistry may be covered in one half-year if desired.)

It is to be understood that the course outlined above is the *minimum* requirement for admission to the First Year of the Faculty of Medicine. Since, however, the primary purpose of the pre-professional training is a sound general education, preference will be given to applicants who have had a full academic course in which the humanistic studies have not been sacrificed to a narrow scientific specialization.

Courses specially designed to meet these requirements are offered in the Faculty of Arts of this University, where a student may:—

(a) Register in a double course, taking three years of work in the Faculty of Arts, and receiving a B.A. or B.Sc. degree upon the completion of the first year of medical study. This course is strongly recommended.

(b) Take the minimum two years' course as outlined above.

Students who are qualified by Senior Matriculation, or otherwise, may enter the second year of the Arts' Course, and thus shorten their pre-professional training.

Candidates for admission to the Faculty of Medicine must also present evidence that they have satisfied the matriculation requirements of the Licensing Body of the Province to which they belong. (For further particulars see "Requirements for Licence to Practice," p. 351.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty of Medicine.

As the number of students in each class is limited, application should be made early and in any case not later than July 1st.

If the applicant be accepted he will be expected to pledge himself to enter the Faculty of Medicine in September; otherwise his place will be given to another eligible candidate.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

APPLICATION FOR EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit to the Secretary of the Faculty an official statement of his preliminary education and of the course he has followed and the standing he has obtained. This should be accompanied by a Calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office for the session 1928-29 on September 12th to September 18th, 1928. Those who register after September 20th will be required to pay a fee of $5.00 if they do so during the first week of the session and $10.00 if during the second. This fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

EXAMINATIONS AND PROMOTION

A. Examinations

1. *Class Exeminations,* oral or written, are held during the session to test the progress of the student. If the standing obtained by any student in these examinations is unsatisfactory, he shall not be permitted to take the final examination.

2. *Final or University Examinations* are the ultimate test in determining a student's fitness for promotion or graduation. They are held at the end of the Winter and Spring Terms and during the fortnight preceding the opening of the Autumn Term in September.

The Final or University Examinations include the following subjects arranged in three divisions:—

First:—

1.	Anatomy	3 terms
2.	Histology	2 "
3.	Bacteriology	1 term
4.	Physiology	3 terms
5.	Biochemistry	2 "

Second:—

6.	Pharmacology	1 term
7.	Pathology and Medical Jurisprudence	5 terms

Third:—

8.	Public Health and Preventive Medicine	2 terms
9.	Obstetrics and Gynæcology	2 "
10.	Surgery (including Urology and Orthopædic Surgery)	6 "
11.	Medicine (including Pediatrics, Neurology, Psychiatry, Dermatology and Laboratory Diagnosis)	7 "

In order to qualify for these examinations, a candidate must have attended a course or courses of study extending over at least the number of terms specified in each case.

3. *Re-examination:*—A student who has failed in the Final Examination in any subject may apply for re-examination at the next examination period. Applications must be in the hands of the Secretary at least one week before the date set for the beginning of the examinations, and the applicant must at the same time pay to the Bursar a fee of $5.00 for each subject.

B. Grading

At the conclusion of each course students will be graded in five groups, as follows:—

A = Honours
B = Good
C = Fair
D = Doubtful
E = Failure.

In reporting the grading, the names of those students who attain honour standing shall be arranged in order of merit; in all other grades the arrangement shall be alphabetical.

The grade assigned to a student shall be based upon the result of the Final and Class Examinations, but the instruction will also take into account the record of the work done throughout the course.

The quality of the English used by a candidate will be taken into account in determining his standing in all examinations.

C. Promotion

As noted in section A, the Final or University Examinations are arranged in three divisions. Whilst a certain latitude is permitted as to the time at which these examinations are passed, the following rules will be rigidly enjoined:—

1. *First Division.*—A student must pass the examinations in all subjects of the First Division before he will be permitted to begin the work of the seventh term.

2. *Second Division.*—The examinations in Pharmacology and General Pathology must be passed before a student will be permitted to proceed to the work of the tenth term. The examinations in Special Pathology and Medical Jurisprudence must be passed before the student may proceed to the work of the thirteenth term.

3. *Third Division.*—A candidate may pass the Final Examinations in Public Health separately from the examinations in the other subjects of the Third Division, but not earlier than the end of the twelfth term.

To qualify for the Final Examinations in Medicine, Surgery and Obstetrics, a candidate must have:—

(a) Attended courses extending over a period of not less than fifteen terms.

(b) Satisfactorily completed the prescribed courses of study and practice in:—

i. Ophthalmology,
ii. Oto-laryngology,
iii. Abnormal Psychology and Psychiatry,
iv. Infectious Diseases,
v. Anæsthesia,
vi. Post-mortem Examinations,

and such other courses as the Faculty may from time to time determine.

The Final Examinations in Medicine, Surgery and Obstetrics must all be passed at one time, but a student who fails in one of these subjects only may, at the discretion of the Faculty, be allowed a re-examination in that subject at the next regular examination period, provided that he shall have satisfactorily completed such additional work as may be prescribed by the Head of the Department concerned.

4. The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent.

5. At the end of the Spring Term, the Promotion Committee will consider the cases of all students who at the conclusion of their third term are reported by their instructors as having fallen below the grade of C, and shall determine whether such students are to be allowed to continue, warned, required to repeat the course or courses, or retired from the Faculty.

REQUIREMENTS FOR DEGREE AND LICENSE

1. FOR THE DEGREE OF M.D., C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all of the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for five full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University.

3. No one shall be permitted to become a candidate for the degree who shall not have attended at least one full session at this University.

4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the five years of the Medical course.

5. He must have attended during at least three sessions or nine terms the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have fully reported upon at least ten medical and ten surgical cases.

6. He must also have attended during one full session the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered anæsthetics, under direction, at least six times, and have assisted at not less than six autopsies.

2. FOR LICENSE TO PRACTISE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensure is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before beginning the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a license to practise can be obtained. In order that disappointment and loss of time may be avoided, the University *requires students to register with the licensing body of their home province or state before beginning their medical course.*

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

QUEBEC.—Dr. J. Gauvreau, 364 St. Catherine Street E., Montreal.

ONTARIO.—Dr. H. Wilberforce Aikens, 170 University Avenue, Toronto, Ont.

NEW BRUNSWICK.—Dr. S. H. McDonald, 56 Colborne Street, St. John, N.B.

NOVA SCOTIA.—Dr. W. H. Hattie, Halifax, N.S.

PRINCE EDWARD ISLAND.—Dr. J. S. Jenkins, Charlottetown, P.E.I.

MANITOBA.—Dr. J. E. Coulter, 604 Boyd Bldg., Winnipeg, Man.

ALBERTA.—Dr. George R. Johnston, Calgary, Alta.

SASKATCHEWAN.—Dr. A. MacG. Young, Saskatoon, Sask.

BRITISH COLUMBIA.—Dr. A. P. Proctor, Vancouver, B.C.

The Registrar for Newfoundland is Dr. T. Mitchell, St. John's, Nfld.

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the license of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Dr. R. W. Powell, 180 Cooper Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND REGISTRATION OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain. To obtain a license from the General Council it is necessary to pass one of the examining boards of Great Britain in the final subjects.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1. England.

UNDERGRADUATE COURSES

1. THE MEDICAL COURSE

Each session is divided into three terms of ten weeks, and the medical course will be completed in fifteen terms—or, if the student so desires, he may proceed more slowly prior to taking the examinations for his degree.

The curriculum is so arranged as to permit of a student taking additional or advanced work in certain terms, while in the hospital year much more latitude will be afforded for independent study.

The tenth, eleventh and twelfth terms are arranged on a rotary system.

For information as to courses and examinations required, se p. 348.

2. DOUBLE COURSES IN ARTS AND MEDICINE

B.A., M.D.

The degrees of B.A. and M.D. may be obtained in eight years.

The first three years are taken in the Faculty of Arts, Physics being taken in the First Year, Chemistry 1 in the Second Year and pre-medical Biology and Chemistry in the Third. This is followed by the regular five-year course in the Faculty of Medicine, the B.A. degree being granted on completion of the first medical year.

B.Sc., M.D.

The degrees of B.Sc. and M.D. may be obtained in eight years. Students who wish to proceed to advanced work in Physiology, Biological Chemistry, Pharmacology or allied subjects can qualify by taking the first four years of this course.

COURSES OF INSTRUCTION

ANATOMY

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.

ASSISTANT PROFESSOR:—J. BEATTIE.

LECTURER:—H. E. MACDERMOT.

DEMONSTRATORS:—G. C. ANDERSON; H. M. ELDER; R. R. FITZGERALD; G. A. FLEET; D. S. FORSTER; G. D. LITTLE; B. F. MACNAUGHTON; R. BRUCE MALCOLM; T. M. RICHARDSON; A. ROSS; D. E. ROSS; W. W. RUDDICK; P. G. SILVER; A. STEWART.

The required courses in Anatomy, Histology and Embryology are given in the first three terms of the Medical Course. In subsequent terms opportunity is afforded for a complete revision in Anatomy, together with optional courses of advanced work, both gross and microscopic.

REQUIRED COURSES

1. **Lecture Course in Gross Anatomy.**

Three hours weekly throughout the Autumn, Winter and Spring Terms.....Professors Whitnall and Beattie.

Text-books:—Gray's "Anatomy" (English Edition); Whitnall's "Study of Anatomy."

Reference books:—Quain, Cunningham, Piersol, Keith's "Human Embryology and Morphology."

Recommended for Collateral Reading:—Keith's "Menders of the Maimed"; Hilton's "Rest and Pain."

2. **Laboratory Course in Gross Anatomy.**

Fifteen hours weekly during the Autumn and Winter Terms, and fourteen hours weekly during the Spring Term.

Professor Whitnall and Staff.

Practical Manual:—Walmsley.

3. **Tutorials:** Devoted mainly to the study of Osteology and Surface Anatomy.

One hour weekly throughout the session.....Dr. MacDermot.

Text-books:—Gray's "Anatomy"; Thompson's "Surface Anatomy."

4. **Discussions:** Informal class discussions upon problems and difficulties.

   One hour a week throughout the session.....Dr. Beattie.

5. **Revision Course:** An optional laboratory course covering the whole body.

   Three hours weekly throughout the session for students who have completed the required work.....Professor Whitnall and Staff.

6. **Elective Work:** Advanced or special work by arrangement.

   Six hours weekly during the Spring Term.
   Professor Whitnall and Staff.

7. **Ophthalmological Anatomy:** Mainly a laboratory course designed for graduates in Medicine who intend to specialize in Ophthalmology.

   By arrangement. Details on application.....Professor Whitnall.

8. **Oto-laryngological Anatomy:** A similar course.

   By arrangement. Details on application.....Professor Whitnall.

9. **Physical Anthropology:** A didactic and laboratory course.

   By arrangement .....Dr. Beattie.

10. **Neurology:** A series of colloquia on recent work in the Nervous System.

    By arrangement .....Dr. Beattie.

HISTOLOGY AND EMBRYOLOGY

ASSOCIATE PROFESSOR:—J. C. SIMPSON.

LECTURERS IN HISTOLOGY:—W. M. FISK. C. T. CROWDY.

DEMONSTRATOR:—G. C. ANDERSON.

REQUIRED COURSES

1. **Histology and Embryology—Lecture Course.**

   Three hours weekly during the Autumn and Winter Terms.
   Professor Simpson and Dr. Fisk.

   Text-books:—Jordan, Bailey.

2. **Histology and Embryology—Laboratory Work.**

   Seven hours weekly during the Autumn and Winter Terms.

3. **Organogenesis:** The development of the organs and systems of the human body.

   One hour a week throughout the Session.....Professor Simpson.

   Reference books:—Jordan; Arey; Keith.

OPTIONS

4. **Special Histology and Embryology.**

   Laboratory course open to students who have completed Courses 1 and 2.

   Three hours weekly (Saturday mornings) throughout the Session.

5. **Optional Work:** Advanced work, including microscopical technique.

   Six hours a week during the Spring Term. By arrangement.

PHYSIOLOGY

THE JOSEPH MORLEY DRAKE PROFESSOR AND DIRECTOR OF EXPERIMENTAL MEDICINE:—JOHN TAIT.

RESEARCH PROFESSOR:—BORIS P. BABKIN.

ASSISTANT PROFESSOR:—N. GIBLIN.

DEMONSTRATOR:—W. H. FINNEY.

RESEARCH FELLOW:—J. A. WRIGHT.

In this department special provision is made not only for undergraduate but also for graduate instruction. There are full courses in Physiology proper for all undergraduates. For graduate purposes Physiology has been linked up with Experimental Medicine, and the department, working in intimate association with the hospital wards, forms the headquarters for research in clinical problems along instrumental or "experimental" lines. At the same time the available graduate instruction is not confined to the immediate medical applications of Physiology, provision being made for dealing with the science in some of its wider biological implications.

REQUIRED COURSES

1. **Introductory Course**—Lectures and Demonstrations.
   Six hours a week during the Spring Term.

2. **Systematic Physiology**—Lectures and Demonstrations.
   Three hours a week. Autumn and Winter Terms.
   Text-books:—Howell, Macleod, Starling, Stewart.

3. **General Laboratory.**
Six hours a week. Autumn Term.
Text-book:—Sharpey-Schafer, "Experimental Physiology."

4. **Mammalian Laboratory.**
Six hours a week. Winter Term.
Text-book:—Sherrington, "Mammalian Physiology."

OPTIONS—FOR GRADUATE STUDENTS

5. **Advanced Lectures.**
By arrangement ..... Professor Giblin.
Text-book:—Evans, "Recent Advances in Physiology."

6. **Advanced Laboratory.**

7. **Physiological Clinics.**

8. **Lecture Course on Structure and Function.**
Professor Tait.

9. **Physiological Colloquium.**

10. **Tutorial Class.**

BIOCHEMISTRY AND PATHOLOGICAL CHEMISTRY

PROFESSOR:—J. B. COLLIP.

ASSOCIATE PROFESSOR:—S. W. BLISS.

LECTURER:—DAVID L. THOMSON.

LECTURERS ON PATHOLOGICAL CHEMISTRY:—E. H. MASON. I. M. RABINOWITCH.

DEMONSTRATOR:—S. A. BEATTY.

1. **Biochemistry—Lecture Course.**

During the first half of the course the lectures will deal with the chemical constitution, the physical and other characters and the relationships of the products of the activities of living matter, carbohydrates, fats, proteins, urea, ureides, purins, etc., and in the second half will involve an extensive discussion of (a) the origin, character and the active properties of the various ferments of the digestive tract; (b) the chemical and physical processes involved in, and the products resulting from, the digestion, absorption and assimilation of the foodstuffs in the human body; (c) the intermediate and ultimate products of metabolism, and (d) the chemistry of the tissues and of blood, bile and urine.

Five hours a week during the Autumn and Winter Terms.

2. Biochemistry—Laboratory Course.

The exercises will deal with the practical side of the subjects treated in the lecture course, such as the digestion of starch, fats, and proteins, the absorption and assimilation of fats, the metabolism of the carbohydrates absorbed, and of the products of protein digestion. Especial attention will be given to the methods of the qualitative and quantitative determination of the more important metabolites, such as urea, uric acid, creatine, creatinine, etc.

Twelve hours per week during the Autumn and Winter Terms.

Towards the close of Courses 1 and 2 in the second term, special attention will be given to Pathological Chemistry, which will involve a course of about twenty lectures and about fifty hours of practical work on metabolism in disease.

In addition to the written and practical examination exacted of each student in this course, oral examinations will be held and the results thus obtained will, with those from the written and practical tests, serve to determine the standing of the student in the class list in Biochemistry for the year.

Text-books:—Cole, "Practical Physiological Chemistry"; Halliburton, "Essentials of Chemical Physiology"; Plimmer, "Practical Organic and Biochemistry"; Folin, "Laboratory Manual of Biological Chemistry"; Lusk, "Science of Nutrition."

Reference books:—Robertson, "Principles of Biochemistry"; von Fürth, "Chemistry of Metabolism"; Baylis, "Principles of General Physiology."

PATHOLOGY AND BACTERIOLOGY

STRATHCONA PROFESSOR:—HORST OERTEL.

ASSOCIATE PROFESSOR:—L. J. RHEA.

ASSISTANT PROFESSOR OF BACTERIOLOGY:—A. A. BRUÈRE.

ASSISTANT PROFESSR OF PATHOLOGY:—T. R. WAUGH.

LECTURER AND DOUGLAS FELLOW IN PATHOLOGY:—W. H. CHASE.

LECTURER IN BACTERIOLOGY:—W. W. BEATTIE.

LECTURER IN NEUROPATHOLOGY:—A. W. YOUNG.

ASSISTANT DEMONSTRATORS:—A. W. BLAIR; J. E. DEBELLE; P. E. MACDERMOT; NEIL MCLEOD; A. S. ROSS; G. D. L. TAYLOR.

CURATOR OF MUSEUMS:—E. L. JUDAH.

PATHOLOGY

Required Courses

1. **Introductory Course**—The General foundations and relations of morbid life; including a consideration of the individual and ancestral factors, the direct effects of physical and chemical agents on the animal body; and a general exposition of parasitism.
Two lectures a week—Autumn Term.....Professor Oertel.

2. **General Pathology and Pathological Morphology.**
Comprising the philosophical and historic evolution of the conceptions of disease, pathogenesis and the structural changes incident to it. Two lectures a week—Winter and Spring Terms.
Professor Oertel.

3. **Laboratory Course in General Pathological Anatomy and Histology.**
Six hours weekly—Winter and Spring Terms.
Pathological Institute.....Professor Oertel and Demonstrators.

4. **Special Pathology of the Circulatory, Respiratory, Digestive and Renal Systems.**
One lecture a week—Autumn, Winter and Spring Terms.
Professor Oertel.

5. **Laboratory Course in Special Pathological Anatomy and Histology.**
One hour a week—Autumn, Winter and Spring Terms.
Pathological Institute.....Professor Waugh and Demonstrators.

6. **Diseases of the Blood-forming Organs.**
One lecture a week—Autumn Term.....Professor Waugh.

7. **Pathological Anatomy of the More Important Ductless Glands.**
One lecture a week—Winter Term.....Dr. Chase.

8. **Pathological Anatomy of the Nervous System.**
One lecture a week—Spring Term.....Dr. Young.

9. **Practical Pathology**—Demonstrations and discussions of anatomical and bacteriological material in relation to clinical cases.
Autumn, Winter and Spring Terms.
Montreal General Hospital.....Professor Rhea.

10. **Practical .Course of Pathologico-Anatomical Methods and Diagnosis.**
Once a week—Autumn, Winter and Spring Terms.
Pathological Institute.....Professor Oertel.

11. **Performance of Autopsies**—Group instruction.
Autumn, Winter and Spring Terms.
Pathological Institute.....Dr. Chase and Demonstrators.
Montreal General Hospital....Professor Rhea and Demonstrators.

12. **Gross and Microscopic Demonstrations and Discussions of Specimens Removed at Surgical Operations.**
Once a week—Autumn, Winter and Spring Terms.
Pathological Institute.....Professor Waugh.

13. **Clinico-Pathological Conferences.**
On cases from the medical service of the Royal Victoria Hospital.
Once a week—Autumn, Winter and Spring Terms.
Pathological Institute.....Medical and Pathological Staffs.

OPTIONS

14. **Pathological Colloquium** (for advanced students).
Two hours a week—Autumn, Winter and Spring Terms.
Pathological Institute.....Professor Oertel and Staff.

15. **Colloquium on Diseases of Blood-forming Organs.**
Once a week—Autumn, Winter and Spring Terms.
Pathological Institute.....Professor Waugh.

16. **Practical Course in Hæmatological Technique.**
Open to undergraduates who have taken Course No. 5.
Once a week—Winter Term.
Pathological Institute.....Professor Waugh.

17. **Pathological Research:** (Open to graduates.)
By appointment.
Pathological Institute and Montreal General Hospital.
Professors Oertel, Rhea and Waugh.

Reference books:—Oertel, "Introduction to Pathology"; Virchow, "Cellular Pathology"; Cohnheim, "Lectures on Pathology"; Ziegler, "Specielle Pathologie"; Delafield and Prudden, "Text-book of Pathology"; Wells, "Chemical Pathology."

BACTERIOLOGY

REQUIRED COURSE

1. **Laboratory Course in Bacteriology,** with explanatory lectures and demonstrations.
Autumn Term.
Pathological Institute.....Professor Bruère, Dr. Beattie, Demonstrators and Assistant Demonstrators.

OPTIONS

2. **Systematic Bacteriology**.....Prof. F. C. Harrison
One lecture and three laboratory exercises, first term. (See Graduate School Announcement.)

3. **Bacteriological and Immunological Research.**
Open to Graduates. By appointment.
Pathological Institute.....Professor Bruère and Dr. Beattie.

Reference books:—His and Zinsser; Muir and Ritchie; Jordan; McFarland; Mallory and Wright.

GRADUATE COURSES FOR HIGHER DEGREES

These courses in Pathology and Bacteriology are open to graduates for higher degrees and students of other Faculties. For special course for graduates for higher degrees, see Announcement of the Faculty of Graduate Studies.

MEDICAL JURISPRUDENCE

PROFESSOR:—D. D. MACTAGGART.

In this course the criminal and civil aspects of legal medicine are taken up and fully discussed, also lunacy and its medico-legal aspects. Special attention is devoted to the subject of blood stains, the chemical, microscopic and spectroscopic tests for which are fully described and demonstrated, also the serum test for the detection of human blood. The modes of action of poisons, general evidence of poisoning and classification of poisons are first treated of, after which the more common poisons are described, with reference to symptoms, post-mortem appearance and chemical tests. The post-mortem appearances are fully illustrated by specimens. Injuries are fully discussed, with reference to their significance, under the Workmen's Compensation Act and Accident Insurance.

Autumn Term.
Pathological Institute.....Professor MacTaggart.
Text-books:—Glaister, Buchanan, Smith.
Reference books:—Peterson and Haines, Taylor.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

PROFESSOR AND DIRECTOR:—A. GRANT FLEMING.
STRATHCONA PROFESSOR OF HYGIENE:—T. A. STARKEY.
ASSISTANT PROFESSORS:—R. ST. J. MACDONALD. F. B. JONES.
ASSISTANT PROFESSOR OF MENTAL HYGIENE:—W. T. B. MITCHELL.
LECTURER IN INDUSTRIAL HYGIENE:—F. G. PEDLEY.

The instruction in Public Health and Preventive Medicine given to the medical undergraduates is designed to meet the requirements of the practitioner in Medicine.

In order that the importance of Public Health and Preventive Medicine may be kept before the student, short courses are given in the First and Second Years. These courses are of an introductory nature and, from a historical background, develop the needs and opportunities for preventive medicine and its relation to society.

The main course is given in the Third Year, with the exception of the communicable diseases, which come in the Fourth Year.

The Department aims to correlate the teaching of the preventive aspects of Medicine with that which is dealt with by other departments in their special field. In addition, those phases of the subject that are not included elsewhere are covered, such as water, milk and food supplies, public health administration, hygiene of the school child, industrial hygiene and mental hygiene.

The course in Mental Hygiene, included in the programme of the Department of Public Health and Preventive Medicine, attempts to give the student an understanding of what is possible and of what is being done in the way of preventing nervous and mental diseases, delinquency and crime, and social failure. This implies a knowledge of what is normal in the way of behaviour responses at the different stages of the individual's development; of how we may recognize and deal with significant deviations from the average response; the factors underlying individual success and failure; the place and the means of introducing mental health principles into home, school, social and industrial situations.

The course includes introductory lectures in the First and Second Years, in an attempt to give the student more complete insight into his own behaviour responses and an objective attitude to the behaviour responses of others. This introductory course is followed up by the formal Mental Hygiene presentation, covering ten hours, in the Third Year.

The hygiene of the child of school age includes, for consideration, the chief points of a school health service, its scope, and the duties of the School Medical Officer, a post so frequently undertaken by the general practitioner.

Industrial Hygiene deals with the application of the principles of preventive medicine to industry. The various factors which influence the health of work people are discussed, and the means which may be taken to supervise their health and safety are considered.

In the Third Year, visits of inspection are made to plants selected to illustrate the general principles of water purification, the modern dairy plant, including pasteurization and industrial hygiene.

A brief course in Applied Public Health Bacteriology is given to familiarize the student with the facilities available, the method of taking specimens, the methods of examination and the interpretation of laboratory reports on water, milk, sputum, nose and throat swabs.

A Health Study of the student's home town, or some other place acceptable to the Department, is required before the beginning of the Fifth Year. This study requires some individual field work by each student.

An optional practical course, more advanced than the above regular course, is open to students wishing to go more fully into the subject.

The Laboratory is provided with all apparatus needed in every branch of public health work.

Text-books and Reference Books:—

The General Field:—Parkes and Kenwood; Notter and Firth; Harrington and Richardson; Rosenau; Park; Fitzgerald.

Industrial Hygiene:—The Health of the Industrial Worker, Collis and Greenwood; Industrial Health, Hayhurst, Emery and Kober; Industrial Poisons in the United States, Hamilton.

Mental Hygiene:—The Mental Hygiene of Childhood, White.

School Hygiene:—The Fundamentals of School Health, Kerr.

PHARMACOLOGY

PROFESSOR:—R. L. STEHLE.

ASSISTANT PROFESSOR OF THERAPEUTICS:—D. S. LEWIS.

ASSISTANT PROFESSOR OF PHARMACOLOGY:—N. B. DREYER.

LECTURER IN ANÆSTHESIA:—WESLEY BOURNE.

LECTURER IN THERAPEUTICS:—D. GRANT CAMPBELL.

LECTURERS IN PHYSIO-THERAPY:—F. J. HARVEY. NORMAN BROWN.

DEMONSTRATOR IN PHARMACOLOGY:—W. DE M. SCRIVER.

ASSISTANT DEMONSTRATOR:—C. J. TIDMARSH.

REQUIRED COURSES

Second Year

1. **Pharmacology.**—The action of drugs is considered in as exact a fashion as possible from information derived by means of experimental methods and careful clinical observation. A serious attempt is made to familiarize the student with the chemistry of the drugs studied in so far as it is known.

Three lectures a week during the Spring Term, supplemented by one conference and one demonstration a week.

Professor Stehle and Dr. Dreyer.

2. **Pharmacological Laboratory.**—The experiments are chosen to illustrate the lectures of the preceding course.

Two periods (six hours) a week during the Spring Term.

Professor Stehle, Dr. Dreyer and Staff.

Third Year

3. **Therapeutics.**—The principles of therapeutics and the application of drugs in Internal Medicine, Surgery, Gynæcology and the specialties are covered.

Two lectures a week during the Spring Term and one per week during the Autumn Term.

Professor Lewis and Drs. Bourne and Campbell.

4. **Pharmacy and Prescription Writing.**

Five lectures and five laboratory periods during the Winter Term.

Professor Lewis and Assistants.

5. **Physio-therapy.**

Five lectures and ten hours of group instruction during the Winter Term .....Drs. Brown and Harvey.

Options

Suitably prepared persons may undertake research at any time.

Advanced courses leading to the degrees of B.Sc. (Med.), M.Sc., or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies.

Text-books in Pharmacology:—Cushny, Sollmann, Poulsson, Meyer and Gottlieb.

MEDICINE

Professor and Director of the Department:—Jonathan C. Meakins.

Professors:—Campbell Palmer Howard.
W. F. Hamilton.
C. F. Martin.

Associate Professor:—A. H. Gordon.

Assistant Professor and Assistant Director of the University Medical Clinic:—E. H. Mason.

Assistant Professor of Medical Research:—Maude E. Abbott.

ASSISTANT PROFESSORS:—C. A. PETERS. I. M. RABINOWITCH.

LECTURERS:—J. G. BROWNE, J. KAUFMANN, D. S. LEWIS. C. F. MOFFATT, C. F. WYLDE.

LECTURER (TUBERCULOSIS):—J. R. BYERS.

LECTURER IN MEDICAL RESEARCH (BIOCHEMISTRY):—C. N. H. LONG.

DEMONSTRATORS:—C. C. BIRCHARD, C. R. BOURNE, D. G. CAMPBELL, KEITH GORDON, R. H. M. HARDISTY, A. T. HENDERSON, C. R. JOYCE, D. C. MACCALLUM, A. H. MACCORDICK, H. E. MACDERMOT, J. F. MACIVER, D. W. MCKECHNIE, J. L. D. MASON, D. L. MENDEL, LORNE MONTGOMERY, E. V. MURPHY, E. E. ROBBINS, COLIN SUTHERLAND, J. J. WALKER, J. C. WICKHAM, E. S. MILLS.

ASSISTANT DEMONSTRATORS:—W. W. ALEXANDER, H. F. EBERTS, W. C. GOWDEY, H. N. SEGALL.

ASSISTANT DEMONSTRATOR (TUBERCULOSIS):—J. LANDE.

RESEARCH FELLOWS:—JESSIE BOYD SCRIVER, W. DE M. SCRIVER, G. R. BROW.

The object of this course is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy and bio-chemistry with clinical medicine is emphasized—not only in the pre-clinical years but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded by the establishment of a modern medical clinic at the Royal Victoria Hospital. In this institution and at the Montreal General Hospital there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals as well as by affiliation with other institutions.

Students must have followed up at least ten cases from their inception to a conclusion and be certified therefor.

REQUIRED COURSES

Sixth to Ninth Terms (2nd and 3rd years).

1. A course of lectures on the general principles of medicine, emphasizing and correlating the study of Anatomy, Physiology and Biochemistry in the signs and symptoms of disease.

Three hours a week—Spring, Autumn and Winter Terms.

Professors Meakins, Rabinowitch and Mason.

2. A course of clinical lectures twice weekly is given to demonstrate the application of the principles, as set forth in the course of lectures mentioned above.

Professors Meakins, Rabinowitch and Mason.

3. A course of practical instruction on physical examination and physical diagnosis. This course is given in the Wards and Out-patient Department of the Royal Victoria Hospital.

Professor Meakins and Assistants.

4. During the eighth and ninth terms, a limited number of cases are allotted to each student in the wards for introductory instruction in case-reporting and general examination of patients. This is supplemented by bedside clinics.

5. A course in clinical microscopy of forty periods is given in the laboratories of the Pathological Institute.

Four hours a week—Autumn and Winter Terms.

Dr. Kaufmann and Assistants.

Text and Reference books:—McLeod, "Physiology and Biochemistry in Modern Medicine"; Lewis, "Clinical Electrocardiography" and "Clinical Disorders of the Heart"; Meakins and Davies, "Respiratory Function in Disease"; Todd, "Clinical Methods"; Flint, "Physical Diagnosis"; Cabot, "Physical Diagnosis"; Thompson, "Elements of Surface Anatomy"; Lusk, "Science of Nutrition"; Krehl, "Basis of Clinical Symptoms."

Tenth, Eleventh and Twelfth Terms (4th Year).

6. A course of lecture-quiz exercises throughout the session on the "Principles and Practice of Medicine," by Osler and McCrae, with collateral reading assigned on various topics.

Professor C. P. Howard.

7. A course of theatre clinics at the Montreal General Hospital at which cases of unusual interest are presented.

Professor Gordon and Staff.

8. A course of bedside clinics to small groups at the Montreal General Hospital.

Professor Gordon and Assistants.

9. A course at the Out-patient Department of Medicine and Pediatrics of the Montreal General Hospital, in small groups, where the student will act as a clinical clerk, taking routine histories, making a complete physical examination and performing some of the simpler laboratory tests. At the end of each period the interesting cases will be presented to the entire group by the physician in charge.

10. A course of clinical-pathological conferences for the entire class will be held once a week at the Pathological Laboratory of the Montreal General Hospital.

Professors Rhea, Howard, Gordon and Assistants.

11. Cases in the Medical Wards of the Montreal General Hospital are assigned to each member of the class for reporting. It is obligatory that each student shall present satisfactory case reports on at least ten patients during this course.

Text and Reference books:—Osler's "Practice of Medicine"; Taylor's "Practice of Medicine"; Nelson's "Loose-Leaf System of Medicine"; Oxford, "Loose-Leaf System of Medicine"; Dieulafoy, "The Text-book of Medicine"; Strumpell, "Text-book of Medicine for Students and Practitioners"; McKenzie, "Diseases of the Heart"; Purves Stewart, "Diagnosis of Nervous Diseases"; Bassler, "Diseases of the Stomach and Intestines"; Pharneo, "Teaching Hospitals."

Twelfth-Fifteenth Terms (5th Year).

Hospital year. Each student becomes virtually a member of the externe staff.

He is allotted in turn to various services of the hospital in the capacity of clinical clerk, participating in the keeping of records, the diagnosis and treatment of patients in wards and out-patient departments and in the laboratory duties. He will accompany the physicians in their daily rounds, attend autopsies and report on them to his teachers.

Regular theatre clinics are given only in the major subjects.

With the present limitation of students it becomes possible to give the student a closer familiarity than hitherto with practical scientific medicine and its allied subjects of neurology, psychiatry and pediatrics.

PEDIATRICS

CLINICAL PROFESSOR:—H. B. CUSHING.

LECTURERS:—
- A. B. CHANDLER.
- A. GOLDBLOOM.
- L. LINDSAY.
- S. GRAHAM ROSS.
- R. R. STRUTHERS.
- H. P. WRIGHT.

DEMONSTRATORS:— W. E. ENRIGHT. R. C. STEWART. W. E. WILLIAMS.

Instruction is given in all the clinical years. Emphasis is laid on the relation of Pediatrics to public health and community problems in medicine.

Seventh to Ninth Terms (3rd Year).

1. A series of clinical demonstrations to groups of students on the methods of physical examination of infants and children at the Royal Victoria Hospital, extending over a period of two weeks.

Professor Cushing and Assistants.

2. A series of demonstrations to groups of students on the manifestations of disease in children.

Winter and Spring Terms.

Royal Victoria Hospital.....Professor Cushing and Assistants.

3. During the Autumn and Winter terms of this year a limited number of cases are allotted to each student in the Pediatric Ward for introductory instruction in case-reporting and general examination of patients.

Tenth to Twelfth Terms (4th Year).

4. A course of lectures dealing with the peculiarities and development of children, the principles and theory of infant-feeding, the diseases peculiar to children and the differences in the manifestation and treatment of ordinary diseases of adults and children.

Thirty lectures.

Medical Building.....Professor Cushing and Assistants.

5. A series of clinics throughout the year, illustrating the lectures and demonstrating the ordinary diseases of childhood.

Children's Memorial Hospital....Doctors Lindsay and Goldbloom.

6. A series of demonstrations to groups, in Out-patient Department and Children's Wards, on the examination, diagnosis and treatment of sick children.

Montreal General Hospital.....Dr. Chandler and Assistants.

7. A series of demonstrations to groups of students each week on the ordinary acute infectious diseases.

Alexandra Hospital.

Professor Cushing, Doctors D. Grant Campbell and E. V. Murphy.

Thirteenth to Fifteenth Terms (5th Year).

8. Students act as assistants to the internes, report cases, attend ward rounds and Out-patient pediatric clinics in the various hospitals, supervised by the attending staffs of the hospitals.

9. A series of practical clinics to groups of students on infant feeding and the care and development of young infants.

Montreal Foundling Hospital.

Doctors Lindsay, Goldbloom and H. P. Wright.

10. A series of theatre clinics on the principal diseases of infancy and childhood.

Montreal General Hospital.....Dr. Chandler.

Royal Victoria Hospital.....Dr. Ross

11. A series of clinics to groups on the acute infectious diseases.

Alexandra Hospital.....Doctors Cushing, Campbell and Murphy.

12. A series of demonstrations to groups on prematurity, diseases of the newborn and the care and feeding of the newborn.

Montreal Maternity Hospital.

Doctors S. Graham Ross and R. R. Struthers.

13. A series of demonstrations in the various health centres and post-natal clinics on the care and feeding of normal children and the various phases of undevelopment—by the attending staff of these clinics.

Text-books:—Holt and Howland; Dennet; Feer; Still; Porter and Carter; Morse and Talbot; Alan Brown.

NEUROLOGY

CLINICAL PROFESSORS:—{ C. K. RUSSEL. / F. H. MACKAY.

DEMONSTRATOR:—N. VINER.

A course on Applied Anatomy of the Nervous System is given in the earlier years of study, and students of the First and Second Years are introduced, wherever possible, to neurological patients who illustrate the anatomy and physiology of the nervous system.

1. In the Third Year a series of demonstrations is given on clinical methods of examining the nervous system, and some of the commoner diseases are studied.

Professor Russel and Assistants.

2. Clinical lectures and demonstrations on neurology are given in the Fourth and Fifth Years of the course in the wards and medical theatre of the Montreal General and the Royal Victoria Hospitals.

Professors Russel and Mackay and Assistants.

A series of demonstrations on Neuro-pathology is given in the laboratory.

PSYCHIATRY

CLINICAL PROFESSOR:—C. A. PORTEOUS.

ASSISTANT PROFESSOR:—DAVID SLIGHT.

LECTURER IN MENTAL HYGIENE:—C. M. HINCKS.

LECTURER IN PSCHIATRY:—A. W. YOUNG.

DEMONSTRATORS:—A. G. MORPHY. H. A. SIMS. J. N. PETERSEN.

Instruction will be given in the Fourth and Fifth Year.

REQUIRED COURSES

Tenth and Twelfth Terms.

1. A course of didactic lectures with clinical demonstrations of the commoner psychopathic conditions.

Medical Building.....Professor Slight.

Thirteenth and Fourteenth Terms (5th Year).

2. Clinical instruction in groups is given at the Psychiatric Clinic at the Royal Victoria Hospital, which furnishes examples of the various psychoses, the border line cases, and enables the student to become familiar with forms of mental defect, delinquency and allied conditions. The Clinic deals, moreover, with patients sent for investigation from the charitable agencies of the city and co-operation with the work of the Canadian National Committee for Mental Hygiene.

Professor Slight and Assistants.

3. Practical instruction.

Protestant Hospital for the Insane.

Professors Porteous and Slight.

In all group instruction the student is taught methods of testing psychopathic cases, and of making detailed diagnoses, while the general and occupational therapy, etc., of such cases is dealt with in detail in the hospital services.

Text-books:—"Outlines of Psychiatry," White; "Clinical Psychiatry," Kraeplin; "Psychiatric Neurological Examination Methods," Wimmes Hoisholt; "Diseases of the Nervous System," Jeliffe and White (1923 Ed.).

PSYCHOLOGY

ASSOCIATE PROFESSOR:—J. W. BRIDGES.

1. **Introductory Course in Normal Psychology.** The relation of psychology to other sciences, psychophysiological standpoint, the mechanism of behaviour and the physical basis of consciousness, the motivation of behaviour, instinct habit, imitation, suggestion, perception, association, memory, imagination, feeling, emotion, intelligence, character, temperament and personality.

   One lecture a week—Fourth to Sixth Terms.

2. **Abnormal Psychology.** The relation of abnormal to normal mental life and behaviour, aberrations of instinct and emotion, habit disorders, imperception, hallucination, delusion, obsession, memory disorders, dissociation, mental conflict and its consequences, disorders of personality, dreams, hypnosis, and theories of the unconscious. Abnormalities of mind and behaviour are illustrated by examples from every-day life as well as from mental diseases.

   One lecture a week—Seventh to Ninth Terms.

DERMATOLOGY

LECTURERS:—{P. BURNETT. J. F. BURGESS.}

DEMONSTRATOR:—C. R. BOURNE.

The course is entirely clinical, consisting of a weekly theatre clinic at the Montreal General Hospital on specially selected cases, and out-door clinics, weekly, by Dr. J. F. Burgess at the Montreal General Hospital, and Dr. Philip Burnett at the Royal Victoria Hospital, throughout the session. Lantern slides are used to illustrate the course; also a large series of coloured plates and photographs.

Text-books:—Stellwagon, Walker's Introduction to Dermatology, Hartzell, McLeod, Darier, Campbell, Shamberg, Sutton.

HISTORY OF MEDICINE

PROFESSOR:—SIR ANDREW MACPHAIL.

A course of fifteen lectures will be given upon the History of Medicine to inform undergraduates in the Faculty upon the progress of the science. It is the intention to examine the causes which produced the varying conceptions of medicine in times past, rather than burden the student with a narration of facts and a recital of biographies.

SURGERY

PROFESSOR AND DIRECTOR OF THE DEPARTMENT:—

E. W. ARCHIBALD.

PROFESSOR:—A. T. BAZIN.

ASSOCIATE PROFESSOR:—E. M. EBERTS.

ASSISTANT PROFESSORS:—W. L. BARLOW, C. B. KEENAN.

CLINICAL PROFESSOR OF NEUROLOGICAL SURGERY:—W. G. PENFIELD.

LECTURERS:—F. B. GURD, C. K. P. HENRY, F. E. MCKENTY, F. A. C. SCRIMGER, F. J. TEES.

LECTURER IN NEUROLOGICAL SURGERY:—W. V. CONE.

LECTURER IN ANÆSTHESIA:—W. B. HOWELL.

DEMONSTRATORS:—JOHN ARMOUR, E. B. CHANDLER, GUY JOHNSON, R. R. FITZGERALD, L. H. MCKIM, R. B. MALCOLM, A. STEWART.

DEMONSTRATORS IN ANÆSTHESIA:—J. W. ARMSTRONG, C. C. STEWART.

ASSISTANT DEMONSTRATORS:—HOWARD DAWSON, H. M. ELDER, G. A. FLEIT, B. F. MACNAUGHTON, G. GAVIN MILLER, ALBERT ROSS, DUDLEY ROSS, P. G. SILVER.

To obtain greater uniformity and a better perspective, the department of Surgery and Clinical Surgery has been placed under one head, who has been given control of the teaching in the wards and out-patient departments of the two large hospitals.

Montreal, situated at the head of ocean navigation, and a large railroad and industrial centre, is noted for the extensive amount and varied character of its clinical material. Indeed the teaching in surgery is mainly clinical and practical. In the Montreal General and Royal Victoria Hospitals there are between five and six hundred beds and also large out-patient departments.

REQUIRED COURSES

Seventh to Ninth Terms (3rd Year).

1. **Didactic Lectures Upon the General Principles of Surgery.** Fifteen lectures upon the general principles of surgery are given during the Autumn and Winter Terms. Medical Building.

2. **Clinical Instruction.** All the clinical instruction is given at the Royal Victoria Hospital, except on Saturday forenoon, when a fracture clinic is given at the Montreal General Hospital.

(a) *Out-patient Department, Royal Victoria Hospital.* Students are instructed both in the Out-patient and in the In-patient Department. They are brought into immediate contact with the patient, and taught to take a correct history, to differentiate the abnormal from the normal, to apply their knowledge of anatomy, to make an examination, to dress wounds, arrange and apply splints, and to reduce the simpler fractures and dislocations. In this year every effort is made to teach the principles of the art and science of surgery, and to train the student in habits of observation.

(b) *Ward Work.* Eighteen beds in the wards are allotted during the second half of the session, in order to train the student in the taking of case histories, and the student is expected to assist at the operation on the patient who has been assigned to him.

(c) *Surgical Pathology.* During the first few weeks of the session there will be given a short practical course in Surgical Pathology of an introductory character, which will take up the fundamentals of inflammation, wound repair, and tumours. This will be very largely a laboratory course, and is designed to give the student at the outset of his clinical education a view of the pathological basis of the commoner diseases and injuries such as he will see first in his subsequent hospital service.

(d) *Fractures.* On each Sunday forenoon throughout the Winter and Spring Terms a special course of lecture demonstrations on fractures taking up the general principles and illustrating these by cases, will be given at the Montreal General Hospital. The follow-up Out-door clinic for fractures will also be utilized to demonstrate and teach the use of ambulant apparatus and the methods of restoring function.

Tenth to Twelfth Terms (4th Year).

3. **Didactic Lectures Upon Regional Surgery.** During this year a series of thirty lectures will be given upon the main types of disease and injury. Medical Building.

4. **Clinical Instruction.** The clinical instruction in this year is given entirely in the Montreal General Hospital, except for Wednesday forenoons, when the students are given a theatre clinic at the Royal Victoria Hospital. Students attend surgical clinics in the amphitheatre of the hospital three days in the week. They also attend in the wards of the hospital in groups.

(a) *Case Reporting in the Wards.* Cases are assigned to students who are required to examine the patient carefully, record the conditions found, arrive at a tentative diagnosis, outline the treatment indicated, assist at operations, and follow the case to conclusion.

(b) *Surgical Amphitheatre Clinics.* These are held at the Montreal General Hospital twice a week and at the Royal Victoria Hospital once a week (Wednesday forenoon) throughout the session.

(c) *Out-patient Department.* Demonstration Clinics on selected cases from the general surgical clinic are given twice weekly.

(d) *Ward Classes.* A teacher of mature experience and of professional rank teaches students in the wards and instructs them in groups.

Thirteenth to Fifteenth Terms (5th Year).

The fifth is a purely hospital year. The student in his surgical term acts, for all practical purposes, as an externe, at whichever hospital he is attending. During the ten weeks of this term he devotes practically his entire time to the study of surgery, and at the end of the session is given a preliminary examination.

(a) *Theatre Clinics.* One amphitheatre clinic is given alternately in the Royal Victoria Hospital and the Montreal General Hospital once a week throughout the session.

(b) *Ward Classes.* The students in groups of less than ten men are taught at the bedside four hours a week.

(c) *Case Reporting in the Wards.* The student is responsible for the case reports of the patients allotted to him, which he is to write, with the help and under the control of the house surgeons, as well as of the chiefs of service. He must do his own laboratory work under the direction of a supervisor; he is to be present at the operations on his own cases, wash up, and assist; he must write the progress notes after operation, copy the pathological reports, and attend eventual autopsies, the principle being that he is to follow his case closely from beginning to end. During the term he is allotted on an average from twenty to twenty-five cases.

Students in this Year are required to do a good deal of collateral reading and to make themselves familiar with the anatomy, pathology and physiology of the injury or disease and of the region implicated.

5. Anæsthesia.

Didactic lectures and laboratory demonstrations on anæsthesia are given by the Department of Pharmacology and Therapeutics to the Third Year, and practical instruction in the administration of anæsthetics is given in the hospital to students of the Fourth and Fifth Years.

Text-books:—

1. *General Surgery:* Choyce, C. C., "A System of Surgery"; Thomson and Miles, "Manual of Surgery"; Gask and Wilson, "Surgery."

2 *Emergency Surgery:* Sluss, John W., "Manual of Emergency Surgery."

3. *Surgical Anatomy:* Treves' "Surgical Applied Anatomy."

4. *Fractures:* Scudder, Charles L., "Treatment of Fractures"; Wilson & Cochrane, "Fractures and Dislocation."

5. *Case Reporting:* White, J. Renfrew, "The Clinical Examination of Surgical Cases"; Ryerson, "Process of Diagnosis."

UROLOGY

CLINICAL PROFESSORS:— D. W. MACKENZIE. F. S. PATCH.

LECTURER:—R. E. POWELL.

DEMONSTRATOR:—M. SENG.

Students attend this department in the Royal Victoria and Montreal General Hospitals, for instruction in the methods of diagnosis and treatment of surgical diseases of the urinary and male genital organs and syphilis.

During the Fourth Year they are given a course of fifteen lectures on the elements of the subject in the University.

During the Final Year they receive clinical instruction on groups of cases presented for differential diagnosis, and they are required to discuss these cases and outline the treatment indicated.

Clinical clerkships are assigned in the urological wards, where cases are followed to a conclusion. Opportunity is here afforded for the complete study of a considerable number of cases.

Text-books:—Keyes' Urology.

Collateral Reading:—Thompson Walker's Genito-Urinary Surgery.

ORTHOPÆDIC SURGERY

CLINICAL PROFESSORS:— A. MACKENZIE FORBES. W. G. TURNER. J. A. NUTTER.

LECTURER:—W. J. PATTERSON.

DEMONSTRATOR:—N. T. WILLIAMSON.

Instruction in diseases and injuries of the bones, joints, muscles and the surgery of deformities, both congenital and acquired, is given to the students of the Fifth Year in groups of ten to twelve in the Children's Memorial Hospital, the Royal Victoria and the Montreal General Hospitals.

Each student attends clinics in Orthopædic Surgery at one of these hospitals for ten consecutive weeks.

The demonstrations given are essentially practical. Every student is expected to write histories of, to make the diagnosis for, and to prescribe the treatment for, a definite number of patients.

In the Montreal General and the Royal Victoria Hospitals there are large clinics for both adults and children suffering from orthopædic affections.

In the Children's Memorial Hospital there is a great wealth of clinical material consisting of children who are suffering from the surgical diseases of infancy and childhood.

Text-books:—Whitman's Orthopedic Surgery; Fraser on Tuberculosis of Bones and Joints of Children; Tubby and Jones on Surgery of Paralysis; Jones, Orthopedic Surgery of Injuries; Jones and Lovett, Orthopedic Surgery.

OBSTETRICS AND GYNAECOLOGY

PROFESSOR:—W. W. CHIPMAN.

CLINICAL PROFESSORS:—H. M. LITTLE. H. C. BURGESS. J. W. DUNCAN. J. R. FRASER. J. R. GOODALL.

LECTURERS:—W. A. G. BAULD. DAVID PATRICK.

DEMONSTRATORS:—A. D. CAMPBELL. DOUGLAS GURD. G. C. MELHADO. IVAN PATRICK. ELEANOR PERCIVAL.

CLARA LAW FELLOW AND DEMONSTRATOR:—P. J. KEARNS.

Ninth Term (3rd Year).

1. A course of forty lectures on the fundamental principles of the subject, illustrated by diagrams, models and fresh and preserved specimens.

Four times a week—Spring Term.....Professor Chipman.

OBSTETRICS

Tenth to Twelfth Terms (4th Year).

2. Clinical instruction will be given during the year in the Royal Victoria Montreal Maternity Pavilion, and will include ante-natal care in the Out-patient Department and the conduct of labour and the puerperium in the case-room and wards of the Hospital.

Twelve hours a week during one term.

Fifth Year.

3. Rooms are provided in the New Pavilion, where the students may reside, in groups of six, for a period of twelve to fourteen days. During his period of "interneship" the student will be expected to attend his out-door cases, and, under supervision, to deliver these women in their own homes.

Text-books:—Whitridge Williams; Webster; Evans; De Lee; Berry Hart.

GYNÆCOLOGY

4. Theatre Clinics and bedside instruction in the Royal Victoria and Montreal General Hospitals.

Professor Chipman and Staff.

5. Practical instruction to small groups of students in the out-patient departments of the Royal Victoria and Montreal General Hospitals.

Text-books:—Hart and Barbour; Blair Bell; Dudley Hurst; Gilliam; Anspach.

OPHTHALMOLOGY

PROFESSOR:—W. GORDON M. BYERS.

CLINICAL PROFESSOR:—G. H. MATHEWSON.

LECTURERS:—S. H. McKEE. F. T. TOOKE.

DEMONSTRATORS:—A. G. McAULEY. J. A. MacMILLAN.

ASSISTANT DEMONSTRATORS:—A. BRAMLEY-MOORE. S. O. McMURTRY. STUART RAMSEY. J. ROSENBAUM.

The undergraduate work in Ophthalmology, which is designed to meet the needs of a well-trained general practitioner, embraces the following courses:—

Ninth Term (3rd Year).

1. Routine examination of the eye.

In this work the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Instruction in the use of the ophthalmoscope and familiarization with the appearance of the normal fundus of the eye are an important feature of this preliminary course.

Five hours.

Professor Byers, with Drs. Tooke and McKee and members of the Staff

Tenth to Twelfth Terms (4th Year).

2. Lecture demonstrations.

This course, variously illustrated, covers the general principles and the systematic side of the subject. It has been designed to furnish a background of essential concepts for the clinical work of the Fifth Year.

Ten hours.....Professor Byers.

Thirteenth to Fifteenth Terms (5th Year).

3. Clinical Ophthalmology.

In the Final Year, the entire available time is devoted to an intensive study of the ocular problems that are of greatest moment in general practice—the external diseases of the eye, and the main ophthalmoscopic findings in systematic disorders and affections of the nervous system; with practical lessons on ophthalmic nursing and first aid. This work is conducted in the ophthalmic clinics and wards of the Montreal General and Royal Victoria Hospitals.

Professors Byers and Mathewson and Staff.

Text-books:—Parsons, May, Swanzy, De Schweinitz, Fuchs.

OTO-LARYNGOLOGY

PROFESSOR:—H. S. BIRKETT.

LECTURER:—HAMILTON WHITE.

DEMONSTRATORS:—D. H. BALLON. J. T. ROGERS.

ASSISTANT DEMONSTRATORS:—G. E. HODGE. K. O. HUTCHISON. A. E. LUNDON. W. J. MCNALLY. J. E. TREMBLE.

The course of instruction in Oto-Laryngology is carried on in the wards and out-patient departments of both the Montreal General and the Royal Victoria Hospitals, where, owing to the large clinics, the students are afforded ample opportunity of receiving practical instruction in these subjects. In these two hospitals there are about fifty beds set apart for this specialty.

The courses are designed to afford the student the opportunity of acquiring the oto-laryngological knowledge required by every general practitioner. The practical work is conducted in small groups, so that the personal instruction and supervision, so essential in this subject, are given to each student.

Tenth to Twelfth Terms (4th Year).

1. **Introductory Course.**

Group instruction in:—(a) The normal anatomy of the ear, nose and throat, as exemplified in most dissections, dried specimens, models, stereoscopic plates and radiograms of normal conditions of the accessory sinuses of the nose and mastoid process; (b) The method of using the various instruments for examining the ear, nose and throat; (c) The usual tests for hearing; (d) The recognition of normal conditions of these special organs, as exemplified by clinical material.

Professor Birkett and Staff.

2. **Lecture Course.**

Ten lectures upon the more common pathological conditions of the ear, nose and throat met with in general practice.

Professor Birkett.

Thirteenth to Fifteenth Terms (5th Year).

3. **Clinical Oto-Laryngology.**

A course of clinical instruction in the out-patient departments and wards of the hospitals.

Professor Birkett and Staff.

Text-books:—Chevalier Jackson and Coates; St. Clair Thomson; A. Logan Turner; H. Tilley; Kerrison; Phillips.

GRADUATE INSTRUCTION

1. Any graduate who so desires may attend any of the regular courses given to students of the Final Year. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. **Special graduate work** is offered in every department, both in the laboratories and in the clinics, at any period during the year, provided the graduate is willing to assign himself for serious work to one service. Application for this privilege should be made to the Dean or to the Head of the Department in which the graduate desires to occupy himself.

Vide under heading of "Departments of Physiology, Pathology, Anatomy, Hygiene, etc."

3. **Post-graduate Courses:** Special short courses lasting for two to four weeks are offered by the teachers in most of the clinical departments. For information apply to the Dean of the Faculty of Medicine.

4. **Course for Diploma of Public Health:** This course is specially designed as a thorough training for medical men undertaking the duties of a Medical Officer of Health.

Candidates must have graduated in Medicine, or must have had other qualifications to practise at least twelve months before they are allowed to receive the diploma.

The duration of the course is at least eight months (October 1st to May 31st).

The curriculum is as follows:—

(a) A course of lectures dealing in a comprehensive manner with the general principles of hygiene, preventive medicine and sanitation.

(b) Bacteriology—a full practical course in general bacteriology, with special application to public health.

(c) (1) *Sanitary Chemistry.* Examination of air, water and water supplies in general, the commoner foods and beverages, sewage and sewage effluents, articles of dress, house decorations, etc.; chemical investigations connected with trades and occupations; (2) *Physics.* General principles only in their application to hygiene.

(d) Practical Out-door Sanitary Work. An extended course under a M.O.H., affording facilities for instruction in sanitation relating to housing, factories, work-shops and industrial establishments, schools, waterworks, sewage plants, refuse distribution, abattoirs, dairies and milk stations, welfare centres, etc., etc.

(e) Sanitary legislation and administration. Statutes and by-laws relating to public health and the powers of sanitary authorities; administration of the office of a Medical Officer of Health.

(f) Vital statistics. Calculations and tabulations of returns of births, marriages and deaths and diseases.

(g) Meteorology and climatology; geographical and topographical distribution of disease.

Candidates for this diploma may claim exemption in any of the above subjects on presentation of adequate certificates.

Qualification for the diploma includes a knowledge of infectious diseases, of child hygiene and psychopathic diseases, the use of meteorological, hygienic and sanitary apparatus.

The successful candidate must further know the appearance of healthy and diseased tissues of animals, and their microscopic examination.

Finally, he must show a capacity to formulate a report on sanitary conditions in an actual locality and make annual and other reports as required by Officers of Health.

These examinations are written, oral and practical.

The fee for the course, including the diploma, is $100.00.

5. Special Courses. Graduates desiring instruction in any special branch of Public Health and Preventive Medicine, such as School Health Services and Industrial Hygiene, should apply to the Department. Courses will be arranged suitable for the applicants, in order that they may receive full benefit from the time devoted to the course.

BUILDINGS

Few medical schools on this Continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and geographical conditions exist for the teaching of scientific and practical medicine.

The Medical School is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University is thus made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:—

Roval Victoria Hospital.
Montreal General Hospital.
Children's Memorial Hospital.
Foundling Hospital.
Alexandra Hospital for Infectious Diseases.
Protestant Hospital for the Insane.
Royal Edward Institute for Tuberculosis.

The Maternity Hospital, from the teaching standpoint, is under the control of the University.

THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over $600,000, contains the Offices of Administration, the Medical Library (with its 38,000 volumes, its Reading Rooms and their complete set of technical journals), the Departments of Anatomy, Histology, Hygiene, Pharmacy, and the magnificent Museum of Anatomy. The Faculty of Dentistry is also in this Building.

The new rooms for the reception of the Osler Library are now complete and await its arrival this autumn.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department.

The Department of Histology and Embryology, too, has excellent facilities, with laboratory space for 120 students, and smaller laboratories for research.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over $500,000, this edifice was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184′ x 60′—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

THE PATHOLOGICAL INSTITUTE

This Building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital by a tunnel, is situated on the Northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology, Bacteriology and Medical Jurisprudence, and includes a Pathological Museum and museum workshops. It combines under one roof, quarters for teaching and research in these departments, both for the University and for the Royal Victoria Hospital. From the latter it draws chiefly its material. It was constructed at a cost of $460,000; is of Montreal lime stone; its main front is 242 feet long; the north end is 77 feet wide and the south end 60 feet. It provides ample facilities and equipment for instruction of students, and the research work of the Staff.

HOSPITALS

The Medical School is closely affiliated with a group of active general and special hospitals, the staffs of which are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical School. These affiliated hospitals contains over 2,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, is a general hospital for acute diseases and contains 438 public beds. During 1927 it cared for 13,685 cases, while in its outdoor department 67,702 cases were treated. Many new additions have been made to the Hospital. A modern University Medical Clinic was established in 1924.

There were 280 post-mortems during 1927.

The number of resident physicians is 34.

The Royal Victoria-Montreal Maternity Pavilion, with 200 beds for obstetrical and gynæcological cases, was opened in June, 1926. In this institution there are 100 teaching beds and an organized outpatient service which is of the greatest benefit to the undergraduate student. During the year 1927 the obstetrical service cared for 2,386

cases, with 2,145 confinements in the Hospital and 313 in the Out-patient Department, a total of 2,458.

There are 10 resident physicians.

The Montreal General Hospital is a general hospital for the treatment of acute diseases and contains 284 public beds. In 1927 there were 6,912 admissions to its wards. The large, reconstructed out-patient department, probably the finest in this country, treated last year 155,346 patients. Many modern additions to the original buildings have been made, and a large biochemical laboratory has been finished and completely equipped.

There were 255 post-mortems during the year.

The number of resident physicians is 34.

The Dental Clinic of the University, completed in 1921, has 50 dental chairs, and a hospital dental clinic unequalled anywhere.

The Western Division of the Montreal General Hospital—The Western General Hospital. A hospital for the treatment of acute diseases, with 62 public beds. It is hoped that this hospital will soon afford additional opportunities for teaching. The post-mortem and surgical material is now being used for teaching. During the year 1927 there were 2,104 admissions to the wards and 34,097 patients were treated in the out-patient department.

There were 33 autopsies during the year.

The number of resident physicians is 7.

The Children's Memorial Hospital has 130 public beds, and, in 1927, admitted 1,210 patients. The attendance at its out-door department totalled 13,263 patients. This hospital, while primarily for orthopædic cases, now admits all varieties of patients, and enables the student to get a broad conception of pediatrics. Of special interest are the Departments of Remedial Gymnastics, the Open-air Pavilion, and the well-equipped out-patient service.

There were 57 autopsies during the year.

The number of resident physicians is 6.

A summer course, lasting four weeks, has for several years enabled students and practitioners to become acquainted with many of the most important phases of modern pediatrics.

The Montreal Foundling and Baby Hospital affords a large amount of clinical material for students, and gives special facilities for the consideration of infant feeding. There are 75 beds. In connection with this institution, there is a largely-attended Baby Welfare Clinic for mothers seeking advice as to the care of the normal child, and of themselves.

The Alexandra Hospital for Infectious Diseases, opened in 1906,, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are 170 beds, and, in 1927, 1,411 patients were admitted to the hospital. There were 30 autopsies.

The number of resident physicians is 4.

The Protestant Hospital for the Insane at Verdun has 630 beds. It serves to instruct students in the diagnosis and treatment of the psychoses. Students are taken about the wards in groups, and are required to report on cases and discuss the general problems of Psychiatry with the teachers. Occupational therapy is emphasized.

The Royal Edward Institute—a dispensary for tuberculosis —offers adequate material for teaching students, in groups, the essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, while the other affiliated hospitals are within easy access. These hospitals, with their large clinical and laboratory facilities, and their close affiliation with the University, offer excellent opportunities for the study of disease in all its phases.

LIBRARY

HONORARY LIBRARIAN:—C. F. WYLDE.

ASSISTANTS:—MISS PAULINE M. CARRIÈRE.
MISS C. DAVIDSON, B.A.
MISS EDITH GORDON.
MISS NORAH JAMES.

"The history of the Library is the history of the Faculty."
Professor Hall.

The Library occupies the central part of the Medical Building, the whole front of the second and third floors, as well as a portion of the first floor. On the third floor is the magnificent reading room, 76 x 24 feet, exceptionally well lighted, and capable of accommodating 75 readers. On this floor also are the journal room and private offices. The second floor contains the stack room, the book stacks at present containing about 38,000 volumes and having a total capacity of sixty thousand volumes.

A special feature of the Library is the journal collection, and every effort is being made to complete this section as far as possible and thus to increase the value of the reference department of the Library. There is also a great duplicate collection of journals from which distribution can be made on the exchange basis.

There is no printed catalogue, but there has been compiled a comprehensive list of continuations with their inclusive volumes, and this list will be available for out-of-town borrowers.

The library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other colleges showing proper credentials, and registered nurses. It is felt that graduates living at a distance are not aware of the fact that books may be borrowed from the Library on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during term from 9.00 a.m. to 6.00 p.m., except Saturday, when it closes at 5.00 p.m. After June 1st it is open from 9.00 a.m. to 5 p.m.; Saturdays, 9.00 a.m. to 1.00 p.m. During July and August it is closed on Saturday.

MEDICAL SOCIETIES

1. THE McGILL MEDICAL SOCIETY

The Society is composed of the registered students of the Faculty. Its purpose is:—

(1) To transact all matters of business connected with the undergraduate body.

(2) To stimulate interest along medical lines.

(3) To assist students to express themselves in public with facility.

(4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals, as well as the leading daily newspapers, are kept on file.

2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the fourth and fifth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

FACULTY OF LAW

GENERAL INFORMATION

COURSE OF STUDY

The Faculty offers a three-year course in Law, based mainly on the study of the Roman and Civil systems, the curriculum and timetable being arranged on the assumption that a student is devoting his entire time to his university work.

ADMISSION

Students who have successfully completed two years in the Faculty of Arts at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will have to satisfy the Faculty that they have attained an equivalent educational standard and are intellectually qualified to pursue with advantage the study of law.

Students whose right to enter the Third Year of the Arts course is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Women are admitted to the Faculty on the same terms as men, and are eligible for the degree. As the law stands at present, however, they cannot be admitted to the Bar or to the notarial profession in the Province of Quebec.

FRENCH

The attention of students is directed to the necessity of being able to read French easily, as the greater number of the works to which they will be referred are in that language.

PARTIAL STUDENTS

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in the University. Such permission will only be granted to applicants of at least twenty-one years of age who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to a degree, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

DEGREE

The degree granted in the Faculty is that of Bachelor of Civil Law (B.C.L.). The course covers three years.

No student under the age of 21 years will be eligible for a degree.

The D.C.L. degree is granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing this degree will be found on page 449.

MOOT COURTS

Under the supervision of the professors moot courts are held from time to time during the session in order to afford students practice in the preparation and presentation of legal arguments. Regular attendance at these courts will receive credit as class-room work.

LIBRARY

The Law Library of the University at present contains over 12,000 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom and France are taken, as well as a selection of reports from the United States and elsewhere.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem* fee.

Students in the Faculty are permitted to use the Library of the Court House, which contains in addition a large number of the principal American reports, both of the Federal and of the State courts. The general Library of the University is also available for the use of law students.

OFFICE ATTENDANCE

The attention of students is directed to the amendment to the Bar Act passed at the 1925 session of the Quebec Legislature which reduces the period of clerkship to one year for students who have previously obtained a recognized degree in Law. Advantage has been taken of this to reorganize the Faculty on a full-time basis. The final Bar examination may be taken as soon as the student has been admitted to the study of law and has taken his B.C.L. degree. (For particulars as to Bar requirements see page 394.)

EXAMINATIONS

Examinations will be held:

(a) at the end of the first session, covering the year's work.

(b) at the end of the second session, covering the second year's work, the final examination in Roman and Constitutional Law on the work of both years being held at this time.

(c) at the end of the course, on the work of the three years, except Roman Law, Constitutional Law and International Law.

Subject to the approval of the Faculty in each case, a student who has been prevented by illness from taking certain papers in the sessional examination may be permitted to take supplemental papers on the same subjects. A fee of $5.00 will be payable in respect of each paper. No other supplemental examinations will be granted.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.

CURRICULUM

FIRST YEAR

ROMAN LAW

Three hours throughout the session. Professor Corbett.

CIVIL LAW

(a) Persons and Property.

Two hours throughout the session. Professor LeMesurier.

(b) Obligations.

Two hours throughout the session. Professor Howard.

CRIMINAL LAW

One hour throughout the session. Professor Greenshields.

CRIMINAL PROCEDURE

One hour throughout the session. Professor Greenshields.

CONSTITUTIONAL LAW

One hour, one term. Assistant Professor Scott.

INTERNATIONAL LAW

One hour throughout the session. Professor Corbett.

SECOND YEAR

ROMAN LAW

One hour throughout the session. Professor Corbett.

CIVIL LAW

(a) Sale, agency, partnership, privileges, hypothecs and registration.

Two hours throughout the session. Professor LeMesurier.

(b) Marriage covenants, lease and hire, prescription and minor contracts.

Two hours throughout the session. Professor Chipman.

(c) Gifts, wills, substitution and successions.

One hour throughout the session. Assistant Professor Scott.

LEGAL HISTORY

One hour, one term. Professor Corbett.

CONFLICT OF LAWS

One hour, one term. Professor MacDougall.

CIVIL PROCEDURE

One hour throughout the session. Professor Surveyer.

CONSTITUTIONAL LAW

One hour, one term. Assistant Professor Scott

MUNICIPAL LAW

One hour, one term. Assistant Professor Scott

COMMERCIAL LAW

Corporations.

Two hours, one term. Professor Martin.

THIRD YEAR

COMMERCIAL AND MARITIME LAW

(a) Corporations.

Two hours, one term. Professor Martin.

(b) Introduction to the study of Commercial Law and insurance.

One hour throughout the session. Assistant Professor Tyndale.

(c) Negotiable instruments and banking.

One hour throughout the session. Assistant Professor Scott.

(d) Maritime Law and Carriers.

One hour throughout the session. Assistant Professor Scott.

CIVIL LAW REVIEW

One hour throughout the session. Professor LeMesurier.

CIVIL PROCEDURE

Two hours throughout the session. Professor Surveyer

EVIDENCE

One hour, one term. Professor Wainwright.

CRIMINAL LAW AND PROCEDURE

One hour, one term. Professor Greenshields.

SPECIAL LECTURES

The Hon. Mr. Justice Mignault will deliver two special lectures in the course of each session.

ADMISSION TO THE PRACTICE OF LAW IN QUEBEC

The attention of students who wish to be admitted to the Bar or to the notarial profession in Quebec is drawn to the following summary of the statutory provisions governing the practice of law in the Province:—

I. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME MEMBERS OF THE BAR

N.B.—The articles are here abridged.

R.S.Q., 1925, c. 210, Section 48.—Examinations for admission to study and to practise law in the Province of Quebec are held at the time and place determined by the General Council.

The examinations are held alternately in Montreal and Quebec every six months; namely, at Montreal on the second Tuesday of each January, and at Quebec on the first Tuesday of each July.

All information concerning these examinations can be obtained from the Secretary-Treasurer of the General Council.

Section 50.—Candidates must give notice, as prescribed by this article, at least one month before the time fixed for the examination to the Secretary of the section in which he has his domicile or in which he has resided for the past six months.

R.S.Q., 1925, c. 209, Section 2.—This section provides that candidates holding the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Letters, from any Canadian or British University are dispensed from the examination for admission to study. Such candidates are required to give the notice mentioned above.

R.S.Q., 1925, c. 210, Section 52 (as altered by by-law of the General Council).—On giving the notice prescribed by Section 50, the candidate pays the Secretary a fee of $2.00, and makes a deposit of $125.00 for a complete certificate of admission to study; of $70.00 for a partial certificate of admission to study; and $200.00 for admission to practice, which deposit, less $30.00, is returned in case of his not being admitted.

Section 57.—To be admitted to practice, the student must be a British subject and must have studied regularly and without interruption during ordinary office hours, under indentures entered into before a notary, as clerk or student with a practising advocate during four years, *dating from the registration of the certificate of admission to study.* In the case of a student who has followed a regular law course in a university or college in this Province and taken a degree in law therein the term is reduced to three years, carried on concurrently with the law course, or to one year after having received the said degree.

The By-laws passed by the General Council of the Bar of the Province of Quebec provide as follows:—

Article 51.—A course of lectures on law given and followed at a university or law school of this Province, and the diploma or law degree conferred on students by such university or law school, shall count with reference to the Bar Act, only if the course of study hereinafter outlined has been effectively followed by the university or law school and by the holder of the diploma.

Article 52.—A regular law course in a university or law school of this Province consists of seven hundred and eighty-five lectures of one hour each. These lectures are given on the various subjects in the following proportions:—

ROMAN LAW:—103 lectures:—This course comprises an introduction to the study of law, with explanatory remarks and comments on the Institutes of Justinian and on the principal Roman jurisconsults.

CIVIL, COMMERCIAL AND MARITIME LAWS:—413 lectures:—The course on these subjects must cover a period of at least three years. It comprises the history of French and Canadian law, explanatory remarks and comments on the Civil Code and on the statutes respecting commerce and shipping.

CIVIL PROCEDURE:—103 lectures:—This course must extend over at least two years. It comprises explanatory remarks and comments on the Code of Civil Procedure and of its statutory amendments, a study of the organization of the Civil Court of this Province and the history of the different judicial systems of the country; also the special modes of procedure provided by the statutes and by the by-laws in general, as well as the Bar Act and the By-laws regarding the discipline of the Bar.

PUBLIC AND PRIVATE INTERNATIONAL LAW:—21 lectures:—This course comprises an historical outline, the sources of this law and of its subject matter, its objects (primary and secondary rights of sovereign states), rules of war, commercial and extradition treaties, etc., in force in Canada, as well as the rights and obligations of the citizens of the Province of Quebec and of Canada, and of aliens in the event of conflict of laws.

CRIMINAL LAW:—69 lectures:—This course comprises the history of Canadian criminal law, the organization of the criminal courts, criminal procedure, comments on the criminal law of the country, a comparative study of English and Canadian criminal law. The lectures shall extend over two years.

CONSTITUTIONAL AND ADMINISTRATIVE LAW:—41 lectures:—This course comprises an enquiry into the different constitutional enactments and public institutions of the country, the powers, the organization, the procedure of the Federal Parliament and of the Provincial Legislatures, the laws of education, and the Municipal Code.

COMPARATIVE LAW:—30 lectures:—This course comprises a concise enquiry into the English common law, and a general knowledge of the main principles underlying the civil and commercial laws of the other Provinces of Canada.

Article 53:—The candidate for admission to practice who has obtained a law degree from a university or law school of this Province, must file, together with this notice, a certificate from the Principal or Head of such university or law school establishing that he has followed a law course in such university or law school during at least three years, in conformity with the Bar Act, and, moreover, specifying the number of lectures he has actually attended in each subject comprised in the foregoing curriculum during each of the three years and during the three years as a whole.

Article 54:—The examiners must refuse to accept such degree as valid under the provisions of the Bar Act, if they are of the opinion that the course of study hereinabove outlined has not been effectually followed by the candidate.

II. REGULATIONS APPLICABLE TO THOSE WHO INTEND TO BECOME NOTARIES

For the regulations applicable to candidates for the notarial profession, see Revised Statutes of Quebec, 1925, Ch. 211, Secs. 208-241.

FACULTY OF DENTISTRY

FOUNDATION AND HISTORY

The Dental Department of McGill University was established as a Department of the Faculty of Medicine in the autumn of 1903. This fact insured for the student the very best training in anatomy, physiology, histology, embryology, bacteriology, chemistry, etc., those fundamental subjects, a knowledge of which underlies a successful practice along modern lines of preventive dentistry.

At that time the didactic teaching and laboratory work were carried on in the lecture rooms and laboratories of the Medical Building, clinical instruction being given at the Dental Infirmary, a clinic conducted by the Dental Association of the Province of Quebec. This arrangement fulfilled the requirements of the Department for a time, but soon the need of separate quarters for didactic and laboratory instruction and also of improved clinical facilities was felt. These have been supplied, first, by the assignment to the Department of a portion of the east wing of the Medical Building, and, second, by the establishment of a clinic at the Montreal General Hospital.

The new quarters of the Faculty occupy the northern half of the first floor of the east wing of the Medical Building. Here are provided all the necessary lecture rooms and laboratories, as well as private rooms for the members of the staff. The laboratories are equipped with the latest apparatus and appliances for teaching practical dental operations.

The clinic at the Montreal General Hospital was established in connection with the out-patient department of the Hospital in the early part of the session 1908-09.

The rapid growth of the Faculty, however, soon made necessary the enlargement of the facilities for teaching Clinical Dentistry, and so in 1921 the University, acting conjointly with the Governors of the Montreal General Hospital, thoroughly remodelled the space used for the clinic, and in addition erected a new wing 80 ft. x 36 ft.—the entire wing being occupied by dental chairs and other equipment. This gives to the Faculty one of the most thoroughly equipped dental clinics on the Continent. In addition to the splendid equipment and facilities provided in the Hospital clinic, students of the Dental Faculty share with the other departments the advantage of the great Hospital with which it is connected, such as a splendid X-ray department and a well-managed pathological department. They also have the privileges of the surgical operating amphitheatre, and the Hospital anæsthetists are always available for operations in connection with the oral cavity.

Notwithstanding the greatly increased facilities for dealing with a large number of patients the number attending the dental clinic is still adequate, and more than adequate, to supply the students with every possible method of dental treatment. The Staff of Clinical Instructors is being very materially enlarged, so that the students in the clinic are assured of intelligent supervision and co-operation. The equipment is modern in every respect.

The Medical and Dental Library of McGill is one of the finest in America, so that students who desire it may have the benefit of a great reference library.

The Dean devotes his entire time to the work of the Faculty, thus insuring for the students careful and continuous oversight in both theoretical and practical work.

ENTRANCE REQUIREMENTS

Every candidate for admission to the First Year in the Faculty of Dentistry must have completed two full years in the Faculty of Arts of a recognized university, including lectures and laboratory work in *Chemistry* (Inorganic and Organic), *Physics* and *Biology*.

In the case of those who intend to practise in the *Province of Quebec* these two years must be taken in a recognized English university in that province.

Courses specially designed to meet these requirements are offered in the Faculty of Arts of McGill University, where a student may take the two years of study required, or the second of the two if they have satisfied the requirements of the first by Senior Matriculation, or otherwise.

Particulars of the Junior and Senior Matriculation Examinations are given in the Arts Announcement.

PROVINCIAL REGISTRATION

Intending students are reminded that a University degree in Dentistry does not itself give a right to practise the profession of Dentistry. It is necessary to comply with the Dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its license, and in all of them a certain standard of general education is insisted upon before beginning the study of Dentistry. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their University course.*

The following is a list of the Registrars of the Dental Boards of the several Canadian provinces. Students are advised to write for information whenever they are in doubt as to the regulations of any province.

**Ontario.*—W. E. Wilmott, Toronto.
**Nova Scotia.*—Geo. K. Thompson, D.D.S., Halifax.
**New Brunswick.*—F. A. Godsoe, D.D.S., St. John.
**Prince Edward Island.*—J. S. Bagnall, D.D.S., Charlottetown.
**Manitoba.*—H. F. Christie, D.D.S., 626 Somerset Block, Winnipeg.
**Alberta.*—A. E. Hennigar, D.D.S., Herald Building, Calgary, Alta.
**Saskatchewan.*—L. J. D. Faskin, Regina.
Quebec.—Dr. Denis Forest, 4499 de la Roche St., Montreal.
British Columbia.—Albert Brighouse, Vancouver.

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* Members of the Dominion Dental Council.

DOMINION DENTAL COUNCIL OF CANADA

Seven of the nine Canadian provinces (*i.e.*, all but Quebec and British Columbia) have entered into an agreement whereby the holder of a license granted by the Dominion Dental Council may practise in any of the subscribing provinces. In order to obtain this license a candidate must: (1) Hold a matriculation certificate of the proper standard; (2) Pass the examination set by the council, and (3) Pay the local provincial registration fee.

The Secretary of the Dominion Dental Council is Major W. D. Cowan, M.P., Regina, Sask.

PHYSICAL EXAMINATION, VACCINATION, HEALTH AND ATHLETICS

In order to promote as far as possible the physical welfare of the student body, all First and Second Year students and all students of other Years coming to the university for the first time, will be required to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. Students of all Years who wish to engage in athletic activities are also required to be physically examined. The hours for this examination will be announced at registration.

By such examination physical defects and weaknesses may be discovered. If such defects and weaknesses are amenable to treatment by corrective gymnastics, special exercise will be prescribed and instruction provided. The students will be advised as to what forms of exercise will be likely to prove beneficial or harmful.

Students who do not present themselves for this examination (or otherwise satisfy the Director) before November 1st, will not be allowed to attend the University.

Re-examinations will be held frequently throughout the session for those students who are of low category, or who are suffering from physical disabilities.

Under the provisions of the Provincial Board of Health every student of the University (whether previously enrolled or not) must, at the time of registration for the Session 1928-29, present a certificate of successful vaccination within the past seven years or of insusceptibility to vaccine within five years. Those who cannot do so will have to be vaccinated in a manner satisfactory to the Medical Examiner, otherwise they will not be allowed to attend the University.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

During the session and including the Christmas holidays, all teams and individual *students desiring to participate in "outside"* athletics* must first apply to the Captain or Manager of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examination, etc., such student shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

(For further regulations see handbook published by the Athletic Board.)

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only, when requisitioned for by the Department. A leaflet concerning this service and the general work of the Department, together with the regulations governing athletics, will be distributed at the opening of the session.

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* Outside athletics is interpreted to mean the athletics over which the Athletic Board of the University or the Canadian Intercollegiate Athletic Union does not have control.

COURSE FOR THE DEGREE OF D.D.S.*

Candidates for the degree of D.D.S. must complete two years of pre-dental training in a College or Faculty of Arts before entering upon the four-year course in this Faculty. The curriculum is as follows:—

FIRST YEAR

Anatomy (human).
Bacteriology.
Dental Anatomy.
Histology.
Physiology.
Metallurgy.
Prosthetic Technique.
Operative Technique.

SECOND YEAR

Anatomy (human).
Crown and Bridge Work.
Operative Technique.
Orthodontia.
Prosthetic Technique.
Pathology.
Physiology.
Pharmacology.
Medicine.
Biological Chemistry.

THIRD YEAR

Bacteriology.
Crown and Bridge Work.
Dental History and Economics.
Dental Jurisprudence.
Dental Materia Medica and Therapeutics.
Operative Dentistry.
Orthodontia.
Pathology (General).
Prosthetic Dentistry.
Dental Radiography.
General Anæsthesia.
Dental Surgery.
History and Economics.

* It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

FOURTH YEAR

Local Anæsthesia.
Materia Medica.
Operative Dentistry.
Orthodontia.
Dental Pathology.
Prosthetic Dentistry.
Oral Surgery.
Crown and Bridge Work.
Oral Hygiene.

EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

A minimum of 50 per cent in each subject is required to pass, and 75 per cent for honours.

All examinations in each year must be passed before a student will be allowed to advance to the next.

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations will be held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third Years at the regular examinations excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean at least three days before the date set for the beginning of the examination, and they must be accompanied by a fee of $5.00 for each subject.

QUALIFICATIONS FOR THE DEGREE

1. No one will be admitted to the degree of Doctor of Dental Surgery who shall not have attended lectures for a period of six sessions in this University, or partly in this University and partly in some other approved university, college or school of dentistry.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University, shall be required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

No one will be permitted to become a candidate for the degree who has not attended at least one full session at this University.

3. Candidates for the final examination shall furnish testimonials of attendance on the following branches of dental education; provided, however, that testimonials equivalent to, though not precisely the same as, those stated above, may be presented and accepted.

Biology, General Organic and Biological Chemistry, Practical Chemistry, Physics, Histology, Embryology, Anatomy, Practical Anatomy, Physiology, Practical Physiology, Bacteriology, Dental Materia Medica and Therapeutics, Pharmacology, Dental Pathology, General Pathology, Dental Anatomy, Dental Histology, Metallurgy, Dental Surgery, Dental Hygiene, Dental Jurisprudence, Operative Dentistry, Prosthetic Dentistry, Crown and Bridge Work, Orthodontia, Anæsthesia, Oral Surgery, Dental History and Economics, Medicine.

4. Every candidate for the degree must, on or before the 1st day of May, present to the Dean of the Faculty testimonials of his qualifications, entitling him to an examination, and must at the same time submit an affirmation or affidavit that he has attained the age of twenty-one years.

COURSES OF LECTURES

ANATOMY

THE ROBERT REFORD PROFESSOR:—S. E. WHITNALL.

ASSOCIATE PROFESSOR OF HISTOLOGY AND EMBRYOLOGY:—J. C. SIMPSON.

ASSISTANT PROFESSOR OF ANATOMY:—JOHN BEATTIE.

LECTURER IN ANATOMY:—H. E. MACDERMOT.

LECTURER IN HISTOLOGY:—W. M. FISK.

SENIOR DEMONSTRATOR IN ANATOMY:—A. D. CAMPBELL.

DEMONSTRATORS IN ANATOMY:—
L. H. MCKIM.
F. J. TEES.
G. A. FLEET.
R. B. MALCOLM.
A. ROSS.
H. M. ELDER.
A. STEWART.
W. W. RUDDICK.
B. F. MACNAUGHTON.
G. D. LITTLE.
T. M. RICHARDSON.

The course covers two years, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. He is thus enabled to study in greater detail those parts which are related to his particular province, and he avoids spending undue time over regions which possess no special educational or professional value for him.

First Year:—The student takes the First Year medical course of three lectures and twelve hours practical work a week during the first two terms, thus studying the body exclusive of the lower limb.

Second Year:—Opportunity is afforded of revising and studying in further detail the head and neck. A special dental course of advanced lectures on the face, palate and jaws is given by the Professor and Assistants.

Histology and Embryology.

First Year:—One lecture and one laboratory period per week throughout the session.

The course includes:—

(1) A survey of the general principles of embryology and of the early stages in the development of the human embryo.

(2) A detailed study of the fundamental tissues of the human body.

(3) A study of the development and microscopic structure of the organs and systems, in which the head and neck and the circulatory, digestive, and respiratory systems are considered in detail, whilst the remaining systems are treated in a more general way.

Text-books:—Gray's Practical Anatomy, Walmsley; *Histology,* Jordan, Noyes, Schafer's Elements, Bailey.

CROWN AND BRIDGE WORK

LECTURER:—W. C. BUSHELL.

A series of lectures and laboratory periods in the Third Year leading up to practical cases in the Fourth Year, accompanied by lectures and clinics.

The course embraces all phases of crown work, including porcelain jacket crowns, the preparation of teeth for their reception, the construction of the crowns both as isolated units and as bridge abutments—principles of fixed bridgework, indications and contra-indications, stresses and strains, choice of abutments, construction of pontics.

Special attention will be given to the use of porcelain in bridge construction—removable bridgework; the various attachments and methods of assemblings; a complete course in the casting technique; inlays, both as fillings and as bridge abutments; cavity preparations (direct and indirect); methods of obtaining patterns; the various casting techniques.

DENTAL ANATOMY

LECTURER:—J. W. ABRAHAM.

This course, given in connection with general anotomy in the First Year, is to give the student a thorough knowledge of the size, shape, uses, and general construction of the natural teeth, their articulation and composition.

This is accomplished by lectures and demonstrations, with the use of drawings, models and lantern slides.

The student is required to carve in ivory sixteen teeth, representing all the forms in the human mouth, which are then articulated anatomically. These are used later on in his work in operative dentistry.

Different sections of extracted teeth are made, to familiarize the student with the relationship of the different structures composing the teeth.

The total time given this subject during the First Year is five hours a week for a period of twenty-six weeks, total one hundred and thirty hours, divided as follows:—one hour a week devoted to lectures, twenty-six hours; four hours a week to demonstrating, modelling, carving, making sections, etc., one hundred and four hours.

Text-book:—Black.

DENTAL HISTORY, ETHICS AND ECONOMICS

LECTURER:—F. A. STEVENSON.

History:—

This course is intended to give to the student an intelligent conception of the evolution and development of dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

Ethics:—

Under this head the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner and himself.

Economics:—

Under this head the business of the dentist's life will be considered. The questions of office equipment, keeping of appointments, overhead charges, methods of determining fees, office assistants, etc., will be taken up.

DENTAL JURISPRUDENCE

PROFESSOR:—W. L. BOND.

In this course, the lecturer will discuss the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, etc., will be fully explained.

DENTAL SURGERY

ASSOCIATE PROFESSOR:—A. L. WALSH.

Thirty lectures are given to the Junior Students in the above subject, which includes exodontia, cysts, fractures, and benign tumours, alveolectomy and apicoectomy. The Seniors are given clinics on practical cases and are required to complete one case during the year in any of the above, exceptiong exodontia.

MATERIA MEDICA AND THERAPEUTICS

PROFESSOR:—FRED. G. HENRY.

In the Fourth Year a course of demonstrations and lectures in this subject is given, extending throughout the whole session. This comprises the study of the physical properties, chemical composition and physiological action of the various medicinal substances used in the treatment of diseased conditions of the dental organs and morbid conditions of the oral cavity, together with their various applications, doses, antidotes, and contraindications, with instruction in prescribing, etc. Anæsthesia and the various anæsthetics are also taken up, following that already given in the Second Year.

Text-books:—Hare, Buckley, Prinz; *Local Anœsthesia,* Arthur E. Smith.

METALLURGY

PROFESSOR:—ALFRED STANSFIELD.

ASSISTANT PROFESSOR:—GORDON SPROULE.

This course is given to Dental students of the First Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours each.

The lecture course covers:—

(1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in dentistry.

(2) Methods of melting, casting and alloying metals in the laboratory.

(3) Methods of extracting metals from their ores.

(4) The nature and preparation of alloys, including amalgams.

(5) The metals used in dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminum, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extraction from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.

(6) The manufacture, properties and uses of dental amalgams.

Text-book:—J. D. Hodgen, "Practical Dental Metallurgy."

The laboratory course includes experimental work with the metals: gold, silver, copper, lead, zinc, tin, aluminum and nickel.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Mr. Sproule.

OPERATIVE DENTISTRY

PROFESSOR:—F. H. A. BAXTER.

ASSOCIATE PROFESSOR:—A. L. WALSH.

LECTURER:—W. G. LEAHY.

The purpose of this course is to make the students thoroughly familiar with all modern and accepted methods. The course of lectures extends over two years and a half, and includes discussion of the treatment of caries; the preparation of cavities, the materials used for filling, the most approved instruments and appliances used in operating upon the teeth. Clinics will be held at the Dental Clinic, where ample material is provided and every available means used to make the student practically conversant with all the up-to-date knowledge of this important branch of dental science.

In conjunction with this course, operative technics is taken up, which provides a systematic course in manual training, thoroughly familiarizing the student with the anatomy of the teeth, and the shaping of cavities, from the simple to the more complex. This is carried out on models, using the different regular filling materials, scaling, bleaching, and, so far as possible, all of the operative procedures.

The Dental Clinic is open throughout the whole year, and students are advised to give as long a time to this work as possible. Each student must provide himself with the instruments necessary for his own use, a list of which will be furnished. He is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators, who are always at hand to offer advice and assistance under the direction of the Professor. Between the Second and Third Years, and also between the Third and Fourth Years, students are required to spend six weeks doing practical work in the Hospital Clinic.

ORTHODONTIA

PROFESSOR:—A. W. MCCLELLAND.

LECTURER:—GERALD FRANKLIN.

DEMONSTRATOR:—M. L. DONIGAN.

ASSISTANT DEMONSTRATOR:—F. C. THOMPSON.

The course in this branch will commence with the study of the dental organs during development and eruption.

Special attention will be given to the temporary teeth and the influence they exert in directing the normal occlusion of their permanent

successors. The student will be directed to the importance of the study of the etiology of this subject, and its relation to the prevention and treatment of malocclusion. Cases deviating from the normal, typical of every variety met with in practice, will be dealt with and a classification made based on the treatment required.

The different methods employed in correcting these conditions will be fully demonstrated, together with the mechanical appliances used.

Ample clinical material is available at the Dental Clinic, where students in the final year will be allotted cases, the treatment of which will be carried on throughout the session.

Text-books:—Angle, Pullen, Lischer, Dewey.

PATHOLOGY AND BACTERIOLOGY

PROFESSOR OF DENTAL PATHOLOGY:—FRED. G. HENRY.

PROFESSOR OF PATHOLOGY:—HORST OERTEL.

ASSISTANT PROFESSOR OF BACTERIOLOGY:—A. A. BRUÈRE.

LECTURER AND DOUGLAS FELLOW IN PATHOLOGY:—W. H. CHASE.

Dental Pathology.

This course is given to the students of the Third and Fourth Years, and includes a consideration of the various diseases of the enamel, dentine, dental pulp and peridental membrane, their symptomatology and treatment, also a consideration of abnormal conditions of the tissues of the oral cavity with a description of treatment and management of these diseases.

Special attention will also be given to pathological conditions of the nerve structures of the head and their connections with the diseased conditions of the dental tissues.

The mitigation of pain in dental operations receives special attention and the various means employed fully developed and explained, and such directions given as will enable the student to avoid methods and drugs harmful to the tissues.

Bacteriology.

A course of lectures upon bacteriology in relation to disease for students of the Third Year; lectures given twice a week during the autumn term.

A practical course in the bacteriology of infectious diseases for students of the Third Year. Two periods a week during the autumn term.

Text-books:—Dental Pathology and Pharmacology, Marshall; Endelman and Wagner and Black; Bacteriology, Muir and Ritchie, McFarland, Park, Connell.

PHARMACY

PROFESSOR:—ALEX. B. J. MOORE.

The course in Materia Medica and Pharmacy is given in the Third Year:—

This course of about twenty-five lectures and demonstrations covers pharmacognosy, therapeutics and toxicology.

Pharmacopœias—B.P., U.S.P., B.P.C., and various hospital formularies;

Drugs—All organic and inorganic chemicals, such as:—alkaloids—glucosides, essential oils, stearoptenes, mineral salts, coal tar and its derivatives, animal products, synthetics, their sources and medicinal properties;

Therapeutical classification of drugs, such as:—anæsthetics, anodynes, antiseptics, caustics, hypnotics, hæmostatics, counter-irritants, etc., etc.;

Toxicology—Toxic doses of potent drugs with chemical and therapeutical antidotes; toxic drugs, their action and administration;

Habit-forming drugs—cocaine, heroin, morphine, etc.;

Posology—

Prescription Writing—Various systems of prescribing, symbols, correct abbreviations, incompatibility;

Pharmacy—nomenclature, metrology, specific gravity, percentage solutions, sterilization;

Pharmaceutical Preparations—tinctures, pigments, spirits, collodions, hypodermic injections, mouth washes, dentifrices, fluid extracts, tablets, etc.;

Methods of Manufacture.

Text-books:—Dixon, Cushny, Prinz.

PHYSIOLOGY

THE MORLEY DRAKE PROFESSOR AND DIRECTOR OF EXPERIMENTAL MEDICINE:—JOHN TAIT.

ASSISTANT PROFESSOR:—N. GIBLIN.

DEMONSTRATORS:—H. E. BURKE. W. F. EMMONS.

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects of the subject as bear more particularly on the practice of dentistry.

Text-books:—Huxley's "Lessons in Elementary Physiology"; Thornton and Smart, "Human Physiology."

PROSTHETIC DENTISTRY

PROFESSOR:—GEORGE S. CAMBRON.

ASSOCIATE PROFESSOR:—J. S. DOHAN.

LECTURER:—I. K. LOWRY.

The course in prosthetic dentistry will embrace lectures, illustrated by lantern slides, and practical work in the laboratory, under the supervision of the demonstrator of technics. It will include the preparation of the mouth for dentures, impressions, and the properties of materials used in the construction of artificial dentures. The student will be required to construct the different forms commonly used. Attention is directed to the different functions to be performed by the denture in the restoration of the natural conditions as regards mastication, enunciation and the restoring of the features. Students entering the Second Year will be required to complete 10 days laboratory technique work, which will begin on September 10th at 9 a.m.

Text-book:—Wilson.

PROSTHETIC TREATMENT OF CLEFT PALATE

OLIVER MARTIN AND I. K. LOWRY.

Practical clinics are given to Senior students on cases as they come through the Montreal General Hospital. These cases are carried through in the presence of the Dental students.

SURGERY

ASSOCIATE PROFESSOR:—W. L. BARLOW.

This course is essentially clinical. All lectures and demonstrations are given in the wards and the clinical theatre in the Outdoor Department of the Montreal General Hospital. Cases showing injuries and diseases of the mouth and jaws are demonstrated and the appropriate treatment shown, including operative procedures under local and general anæsthesia.

Text-books:—Oral Surgery, Blair and Ivy, 1923; Brophy's Oral Surgery; Dental Infections, Oral and Systemic, Weston Price, 2 Vols.

CLINICAL INSTRUCTION

Clinical instruction is given in the Operating Theatre and Out-Patient Department and in the Dental Clinic of the Montreal General Hospital. Abundant opportunity is afforded in this institution for the

study of diseased conditions of the mouth and jaws, and for watching operations in these regions. The Dental Clinic, established thirteen years ago by the Hospital authorities, proved a success from the outset, and ample material for clinical study is now provided. Twenty thousand patients were treated at this clinic during the past session.

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lectures or other work of the University course. The practical dental work is supervised by the Director of the clinic and his associates, four of whom are full-time members of the University staff. Anæsthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours.

LIBRARY

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a splendid departmental library dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 6 p.m.; Saturdays, 9 a.m. to 5 p.m.

MUSEUM

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw, etc., and also a very large collection of teeth of all varieties. During the session the Dental Museum will be available for teaching purposes.

FACULTY OF MUSIC

SESSIONAL ANNOUNCEMENT

The work of the Conservatorium of Music for the session 1928-29 will begin on September 17th, 1928, and will end on June 15th, 1929. It consists of three terms of eleven weeks each, **with an additional summer term of three weeks, viz.:—**

(a) September 17th to December 1st.

(b) December 3rd to March 2nd (Christmas vacation, December 21st to January 3rd inclusive).

(c) March 4th to May 23rd (Easter vacation, March 29th to April 1st inclusive).

(d) May 27th to June 15th (short summer term).

Lectures arranged in progressive courses are offered as forming part of a connected curriculum, leading to certificates and diplomas, as well as to degrees in Music in the University.

The lectures will begin in the first week of October, and extend over three terms of ten weeks each, viz.:—

(a) October 1st to December 8th.

(b) December 10th to March 2nd.

(c) March 4th to May 18th.

The examinations in Montreal for Certificates and Diplomas will be held towards the end of the third term, i.e., from May 13th to May 25th. The Theoretical Examinations which precede the Practical Local Examinations will be held on May 1st.

ADMISSION

Students of the Conservatorium will be admitted either as:—

Regular Students, taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music, or the Degree of Bachelor of Music in the University.

Partial Students, who, besides individual instruction in the one principal subject, have the privilege of attending certain classes. Instrumentalists will, at the discretion of the Director, be assigned to

two of the following classes: Theory, Harmony, History, Form and Analysis, Ensemble Playing. Vocalists will be assigned to two of the following classes:—Theory, Sight-Singing, Elocution and Diction, Choral Class.

Class Students. Those wishing to attend lectures or classes only, in either theoretical or practical subjects.

CONSERVATORIUM REGULATIONS

1. Fees will not be refunded, nor will the length of the term be extended on account of temporary absence. Absence from lessons caused by prolonged illness may be allowed for, provided the Secretary is notified and a Doctor's certificate presented.

2. No business matters can be arranged through the instructors, but must be transacted through the office.

3. Students cannot register for less than a term and must notify the Secretary, at least a week before the end of the term, if they wish to discontinue lessons, otherwise it is understood that lessons will be continued through the following term.

4. Any lessons missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed by students will be their loss, unless a Doctor's certificate is produced.

5. An attendance book is kept by each instructor, and the Secretary is notified of any irregularity of attendance or absence of pupils through serious illness.

6. Every student (except those attending schools) must, at the beginning of each session *either* produce a medical certificate from his or her medical attendant *or* be examined by the Medical Officer appointed by the University. See page 99.

7. No student suffering from an infectious or contagious disease, or who is, in the opinion of a competent medical attendant, in any way brought into contact with any person infected with such disease, will be allowed to attend.

8. Students are required to be punctual at lessons, lectures, concerts and examinations.

9. Notices on the bulletin boards are official, and students are requested to pay due attention to such as may be posted there.

10. No change in course or teacher can be made without first obtaining the consent of the Director.

11. Students are advised to take the sessional examination (the form of such examinations to be decided by the Director) and should be prepared for the same by the instructor or instructors to whom they are assigned.

12. Students wishing either to take part in any public musical performance, publish a composition, or accept a professional engagement, must first obtain the consent of the Director.

13. The name of each lecturer and the hours at which the classes are held will be posted on the notice boards.

14. None but registered students of the Conservatorium can take part in either recitals or concerts.

15. Visitors will not be allowed to be present during any lesson (class or private) except by permission.

16. The Director has the right to refuse or to cancel at any time the registration of any individual whose presence in the Conservatorium may appear detrimental to its interests.

17. Smoking within the building is absolutely prohibited.

18. Physical education is compulsory for all regular students of the first two years, two periods per week being devoted to it. No student is asked to do work unsuited to his or her physique, and students debarred from exercise of any kind are dealt with separately and carefully advised.

REQUIREMENTS FOR DEGREES AND DIPLOMAS

(For Fees, see page 141.)

DEGREE OF DOCTOR OF MUSIC

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the Degree of Bachelor of Music, may proceed to the Degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying no less than forty minutes in performance. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition shall be necessary, together with a critical knowledge of the full scores of certain prescribed works.

Graduates of other universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus. Bac., if they wish to proceed to the further degree of Mus. Doc., provided they secure permission to do so from the executive of the Faculty of Graduate Studies and Research.

Full particulars can be obtained from the Registrar of the University.

DEGREE OF BACHELOR OF MUSIC

All candidates for this degree must pass the following examinations:—

1. The Matriculation examination.
2. The First examination in Music (at the end of the first year).
3. The Second examination in Music (at the end of the second year).
4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c each.

The Matriculation Examination

The Matriculation Examination is held yearly, in June, at McGill University and at various centres throughout the Dominion. There is also an examination held in September, but at McGill University only. Candidates for musical degrees will be examined in the following:—

1. English (two papers).
2. History (one paper).
3. Two of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
4. Algebra or Geometry (one paper).
5. Music (musical intervals, scales, clefs, time signatures, construction of chords, elementary harmony to chord of dominant seventh)—one paper. The paper set will be that of the Senior Grade of the local theoretical examination in Music and must be taken by the candidate at the regular examinations held by the Conservatorium in May.

Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates, can be obtained from the Registrar of the University. Before being admitted to Undergraduate courses in Music, candidates must satisfy the Dean of the Faculty of Music that they are sufficiently advanced in their chief and second practical studies.

The requirements for examination in the chief practical subject will be those of the Senior Local Examination for the current year. In the second practical subject a Junior or even an Elementary grade will suffice. If the candidate has talent for and elects to take Composition during the Mus. Bac. course, the Intermediate Grade in one practical subject will be sufficient.

First Examination in Music

(a) Harmony in three and four parts.

(b) Counterpoint up to three parts.

(c) Form and analysis. Questions will be given on accent, cadence, metre, rhythm, phrasing, etc., and on form shown in the works of the classic composers.

(d) General outlines of musical history.

(e) Chief and second practical study. One of these may take the form of the composition of a song or songs, *or* a miniature suite for a solo instrument or any combination of instruments.

Second Examination in Music

(a) Harmony in not more than four parts.

(b) Counterpoint (strict and free) in not more than four parts.

(c) Canon in two parts and fugal exposition up to four parts.

(d) History of music from the 16th century to the present day.

(e) Form and analysis. The candidate must show an intimate knowledge of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.

(f) Elementary knowledge of acoustics *or* physiology of the voice.

(g) Chief and second practical study, *or,* instead of one of these, the composition of:—

(1) A movement in sonata form for pianoforte (or piano and violin, or any other combination),

or

(2) A choral movement with independent accompaniment,

or

(3) A suite for strings.

The possession of the Diploma of Licentiate of Music obtained either under Class I or Class III from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. Bac., and, accordingly, candidates can proceed direct to the Final Examinations, provided that they have matriculated. The holder of a diploma under Class II is exempted from the First Examination for Mus. Bac. and from the practical, but not the theoretical work of the Second.

Final Examination in Music

(a) Harmony up to five parts.

(b) Counterpoint (strict and free) up to five parts.

(c) Double Counterpoint in 8ve, 10th, and 12th.

(d) Canon and fugue in three and four parts.

(e) History of music from the earliest time to the present.

(f) Form and analysis. Knowledge will be required of such works as the following: Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's and Brahms' Songs; an Opera *or* an Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner. Candidates should, at least three months before the examinations, obtain from the Secretary of the Faculty of Music a complete list of the works upon which the examination papers in this subject will be based.

(g) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time; also the reading at sight of a short excerpt from an easy score of a classic composer.

(h) Chief and second practical study or, in lieu of both of these, a composition can be sent in by the candidate, containing four-part chorus, a solo or duet, an unaccompanied quartette and a four-part fugue. The whole work (except the quartette) must be scored for stringed instruments in such a way as to show considerable independence between voices and instruments. If preferred, this composition can take the form of a string quartette containing not less than three movements.

REGULATIONS FOR DIPLOMA OF LICENTIATE OF MUSIC

(For Fees, see page 141.)

Candidates may elect to be examined either in:—

Class 1—Theoretical Subjects and Composition, or

Class 2—Practical Subjects as Performers, or as

Class 3—Teachers in both Theory and Practice.

The following are the requirements of each branch:—

Class 1—Theoretical Subjects and Composition

First Examination

(a) Advanced Rudiments, including Sight Reading and Ear Tests.

(b) Harmony in four parts up to and including chords of the ninth, passing notes and suspensions; also the Harmonization of a Melody.

(c) Counterpoint in two parts.

(d) Viva voce examination in rudimentary Composition and Extemporization.

N.B.—If candidates can produce certificates of having passed in the Highest Grade of the theoretical local examinations, they will be excused all but the last test, which can be taken at the same time as the second examination.

Second Examination

Requirements a, b, c, and d are the same as those for the First Examination for Mus. Bac. (See page 418.)

(e) Composition of a song (or two short songs) or a miniature suite for piano (or piano and violin, or any other combination). The

M.S. should be sent in at least a month before the date of examination to the Secretary of the Examining Board, McGill Conservatorium of Music, Montreal.

Third Examination

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. Bac. (See page 419.)

(f) Practical work on pianoforte or organ. The requirements are those of the Senior Grade of the practical local examinations. Exemption from this test may be claimed if candidates possess certificates showing that they have passed that examination.

(g) Composition of (1) a movement in Sonata form (for either pianoforte, or organ, or violin and pianoforte, or any other combination); or (2) a Chorus with independent accompaniment; or (3) a Suite for Strings. This should be sent in at least a month before the date of examination.

Class 2.—Practical Subjects as Performers

First Examination

(a) Rudiments of Music, including Sight Reading and Ear Tests.

(b) Easy Transposition Tests (for instrumentalists only).

(c) Diction in respect of Modern Languages (for singers only).

(d) Practical work either as Vocalist or Instrumentalist, in Principal Study, the requirements of which will be those of the Highest Grade of the practical local examinations.

Second Examination (Semi-Final)

The requirements for candidates whose chief study is either pianoforte, or violin, or violoncello, or organ, or singing, will be found under separate headings.

PIANOFORTE

(No written examination.)

1. *Scales.*

Major, minor (both forms) and chromatic scales at the distance of 8ve, 3rd, and 6th; also in double 3rds and double 8ves.

The candidate must be prepared to play all the above-mentioned scales in all keys, in either similar or contrary motion, beginning on either the highest or lowest notes, and with either legato or staccato touch.

2. *Arpeggios.*

Common chords, dominant and diminished 7ths, with inversions and with hands either an 8ve, 3rd, 6th, or 10th apart, in similar and contrary motion, also in double octaves, legato and staccato, beginning on either the highest or lowest notes.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semi-tone above or below.

5. *Performance.*

(a) One of the more difficult of the 48 Preludes and Fugues, or, Part of a Suite or Concerto ..... J. S. BACH

(b) One of the more difficult Etudes, Op. 100 Bk. I..... KESSLER

or

Etude No. 5..... PAGANINI-LISZT

(c) Sonata Op. 22 or Op. 26 or Op. 28 (D major).... BEETHOVEN

(d) Any one of the Novellettes..... SCHUMANN

or

Toccata and Clair de Lune..... DEBUSSY

or

Any one of the following Etudes:

Op. 10, Nos. 4, 5. Op. 25, No. 16..... CHOPIN

or

Any one of the Nocturnes..... CHOPIN

(e) A piece of the candidate's own choice.

Questions will be asked on the general outlines of form shown in the pieces and also on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLIN

(No written examination.)

1. *Scales.*

C major in thirds, sixths, and octaves, one note to each bow, through two octaves. Also any of the ordinary scales through three octaves with various bowings. Chromatic scale starting from F in the first position (D string) through two octaves.

2. *Arpeggios.*

All major and minor common chords, dominant 7ths, and diminished 7ths in three octaves. No. 7 from Sevçik Violin School, Op. 1, Part III, may be presented for this test.

3. *Reading at Sight.*

4. *Performance.*

Candidates must prepare any two Etudes from each of the following composers:—Kreutzer, Fiorillo, Rovelli, Gavinies, and Rode, and also play the first movement of No. 22, Concerto Viotti, or a first movement from any one of the Spohr Concertos.

5. *Questions.*

Questions will be asked on the general outlines of form shown in the studies and pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLONCELLO

(No written examination.)

1. *Scales.*

Major, minor (melodic form), and chromatic scales in all keys.

2. *Arpeggios.*

Studies Nos. 10 and 15. J. L. Duport.

3. *Reading at Sight.*

4. *Performance.*

(a) Suite No. 2.....J. S. Bach

(b) Sonata (last two movements).....Brahms

or

Sonata No. 1 (First Movement).....Beethoven

or

Sonata No. 1 (First Movement).....Mendelssohn

(c) Also any two of the following pieces:—

Rondo .....Boccherini

La Serenata (published by Schirmer).....V. Herbert

Le Soir (published by Leduc).....L. Vierne

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

Viola, Double-Bass, Harp and Wind Instruments

Requirements will be forwarded to candidates on application to the Secretary, 323 Sherbrooke Street West, Montreal.

ORGAN

(No written examination.)

1. *Scales.*
   (a) Manuals only (with both hands).
   (b) Pedals only.
   (c) One manual only with pedals, at varying degrees of speed and beginning with either the highest or lowest note.

   In the case of (a) and (c) contrary motion may be required.
2. *Arpeggios.*
   (a) For pedals through two 8ves; common chords, major and minor, in keys of C, D flat, D, E flat, E, and F.
   (b) One hand and pedals combined, in contrary motion.
3. *Reading at Sight.*
4. *Transposition.*

   Of a short passage, a semitone above or below.
5. *Performance* of either List A or List B.

List A.

Prelude and Fugue in G major.....Bach
(Vol. VIII, Novello's Edition, or No. 1, Vol. II, Peters' Edition)

Chorale Improvisationen Op. 65.....Karg-Elert

Rhapsody, Op. 17, No. 3.....Howells
(Published by Augener)

List B.

Prelude and Fugue in E flat.....Bach

Elegie and Toccata-Prelude.....Bairstow
(Published by Augener)

Scherzo in E major.....Gigout

6. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

SINGING

(No written examination.)

1. *Scales and Technical Exercises.*

Major, minor, and chromatic scales at varying degrees of speed. (For example, see Randegger's Singing Primer, pages 38, 41 and 48.) Also any six of the technical exercises given on pages 161 to 169 of the same work, selected according to voice.

2. *Arpeggios.*

See Randegger's Singing Primer, pages 102, 104 and 107.

3. *Reading at Sight.*

4. *Performance.*

Studies.

Soprano or Tenor—Any two from No. 1 to No. 17, Fourth Series. Part 1. 30 Solfeggios.....VITTORIO RICCI

Alto or Bass—Any two from No. 1 to No. 17, Fourth Series. Part II. 30 Solfeggios.....VITTORIO RICCI

Medium Voices—Any two from No. 1 to No. 17, Fourth Series. Part III. 30 Solfeggios.....VITTORIO RICCI

The selection of the pieces to be rendered in this examination is left to the candidates, who must, however, choose music of the following character:—

(a) One or two specimens of Recitative.

(b) Two solos from an Oratorio or Oratorios,

or

Two Solos from an Opera or Operas.

(c) One song by any of the following composers:—SCHUMANN, SCHUBERT, FRANZ, BRAHMS, LOEWE, PARRY, ELGAR, WOLF, HENSCHEL, STANFORD, RONALD, SCOTT, IRELAND.

(d) One song by any of the following composers:—GOUNOD, MASSENET, GERMAN, BALAKIREFF, LISZT, MALLINSON, MACDOWELL, GRIEG, HAHN, SIBELIUS.

(e) One or two specimens of Folk Songs.

5. *Questions.*

Questions may be asked as to the style of the pieces selected and the modulations or keys through which the music passes, etc.

Questions may be asked on the more advanced rudiments of music.

Third Examination (Final)

The requirements for candidates whose chief study is either Pianoforte, or Violin, or Violoncello, or Organ, or Singing, will be found under separate headings. There is no written examination.

PIANOFORTE

1. *Transposition Test.*

The transposition of a passage a tone above or below.

2. *Sight Reading Test.*

3. *Questions.*

Questions will be asked on musical history from the 16th century to the present day.

4. *Performance.*

(a) Prelude and Fugue C sharp major, Bk. 1 or
A flat major, Bk. 2.....J. S. BACH

or

Toccata in G major.....J. S. BACH

or

Prelude and Fugue in A minor.....J. S. BACH
(Arranged by Max Vogrich)

or

Prelude and Fugue in E minor.....MENDELSSOHN

(b) Any two of the following Etudes, Op. 10, Nos. 1, 2, 7, 8, 9; Op. 25, No. 6.....CHOPIN

or

Two contrasted studies from Bks. 2 or 3, Op. 100.....KESSLER

or

Etude (on false notes).....RUBINSTEIN
Any one of 6 Etudes, Op. 111, Book 2.....SAINT-SAËNS

(c) Sonata, either Op. 53, or Op. 54, or Op. 57,
or Op. 31 No. 2, or Op. 31 No. 3.....BEETHOVEN

or

A Concerto by a classical or modern composer.

(d) Etudes Symphoniques (Tema and any 3 Etudes)..SCHUMANN

or

Sonata in E minor.....SJÖGREN

or

Intermezzi (any two).....BRAHMS

or

Theme and Variations Op. 16 No. 3.....PADEREWSKI

(e) Lotus Land.....CYRIL SCOTT

or

Slavonic Dances Op. 46 (any two).....DVORÀK

or

Reflets dans l'eau.....DEBUSSY

or

Ballale Op. 52.....CHOPIN

(f) Au Bord d'une source, Tarantelle.....LISZT

or

Danse des Elfes.....SAPELNIKOFF

(g) A piece of the candidate's own choice.

Note.—Candidates must be prepared to play some, if not all, of these from memory.

5. *Short Examination in Second Study.*

Certificates gained in any of the three higher grades of the local practical examinations will exempt candidates from this test, whether the subject chosen is Organ or Violin, or Violoncello, or Singing.

VIOLIN

1. *Sight Reading Test.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day.

3. *Performance.*

(a) Any one of the ten Sonatas.....BEETHOVEN

(For Violin and Pianoforte.)

And any one movement of either of the two Sonatas. J. IRELAND

(b) Any one of the following Concertos may be selected by candidate:—

BEETHOVEN, MENDELSSOHN, ERNST in F sharp minor, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAËNS in B minor, BRAHMS, ELGAR, WIENIAWSKI, BRUCH, LALO.

(c) Romance in E minor.....SINDING

Havannaise .....SAINT-SAËNS

Rhapsodie Piedmontèse.....SINIGAGLIA

4. *Short Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations in pianoforte will exempt candidates from this test.

VIOLONCELLO

1. *Reading at Sight.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day.

3. *Performance.*

Sonata in A major (1st movement).....BEETHOVEN

Serenade-Waltz .....HERBERT SHARP

Spanish Nocturne.....E. GOOSSENS

(Pub. by Hawkes & Son.)

Concerto in A minor.....SAINT-SAËNS

Sonata .....GRIEG

A la fontaine (Fisher Edition).....DAVIDOFF

4. *Short Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations will exempt candidates from this test.

ORGAN

1. *Transposition and Modulation Tests.*

The transposition of a passage into another key not exceeding a tone above or below. Modulation.—Candidates are advised to make their modulations musically and not only mathematically correct.

2. *Sight Reading Test.*

3. *Questions.*
Questions will be asked on Musical History from the 16th century to the present day.

4. *Performance.*
Of one piece from each of the following lists:—

(a) Sonata in E flat.....BACH
Prelude and Fugue in D major.....BACH
Introduction and Passacaglia.....MAX REGER
Introduction, Passacaglia and Fugue.....HEALEY WILLAN
(Published by Ditson)
Fantasia in F minor.....MOZART

(b) Sonata in D minor.....RHEINBERGER
Sonata in E minor.....MERKEL
Sonata in C sharp minor.....HARWOOD
Sonata No. 4 in B flat major.....MENDELSSOHN

(c) Postlude in E flat.....GUILMANT
Dithyramb.....HARWOOD
Fantasia in E flat.....SAINT-SAËNS
Symphony No. 5 or No. 6, any two movements.....WIDOR

5. *Short Extemporization on a Given Theme.*
Optional test.

6. *Short Examination in Second Study.*
Certificates gained in any one of the three highest grades of the local practical examinations will exempt candidates from this test, whether the subject chosen is Pianoforte, or Violin, or Violoncello, or Singing.

SINGING

1. *Performance.*

(a) Studies.

Soprano or Tenor—Any two from No. 18 to the end of the Fourth Series, Part I, of 30 Solfeggios.....VITTORIO RICCI
Alto or Bass—Any two from No. 18 to the end of the Fourth Series, Part II, of 30 Solfeggios.....VITTORIO RICCI
Medium Voices—Any two from No. 18 to the end of the Fourth Series, Part III, of 30 Solfeggios.....VITTORIO RICCI

(b) The solo work from part of an Opera (an act or scene), or the solo work from a whole Oratorio.

(c) Songs in various languages to exemplify proficiency in diction.

2. *Sight Reading Test.*

3. *Questions* on Musical History from the 16th century to the present day.

4. *Chief Study.*

The studies by Vittorio Ricci must be prepared by all candidates, but as types of voices and capabilities of vocalists differ so much, it is impossible to satisfactorily specify other work on which any individual candidate shall be examined. The Examination Board will be prepared to accept in the Final Examination any works on which a correct judgment can be formed as to whether the candidate shall, after examination, be awarded the Diploma:—

(a) As soloist for Concert Work only.
(b) As soloist for Light Opera.
(c) As soloist for Grand Opera.
(d) As soloist for Oratorio.
(e) As soloist for a combination of any of these.

Candidates should, after passing the Second Examination, submit to the Board of Examiners, through the Secretary, a list of works which they propose to present for the Final Examination.

5. Second Study (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations for Pianoforte will exempt candidates from this test.

The ability of candidates to play their own accompaniments on the pianoforte to the vocal work prepared by them for the examination, together with the reading of a song accompaniment at first sight, will be accepted as second study.

CLASS 3.—TEACHERS' EXAMINATION (THEORY AND PRACTICE)

First Examination

(Partly written and partly viva voce.)

1. Advanced Rudiments.

2. A knowledge of harmony up to chords of the 7th. Analysis of given chords or passages, and harmonization of an easy melody and figured bass.

3 Chief Study.

Candidates will be expected to show sufficient executive ability to perform the technical work, studies, and pieces contained in the list for the current year's local examination in the Highest Grade. (Total exemption from this examination can be claimed if candidates can produce certificates of having previously passed the Senior Grade, theoretical, and the Highest Grade, practical, of the local examinations.)

Second Examination (Semi-Final)

(Partly written and partly viva voce.)

1. Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes.
2. Counterpoint in two parts.
3. General outlines of Musical History.
4. The principles of Elementary Form and Analysis.
5. Chief Study.

   The requirements for this will be the same as for the Semi-Final Performers' Licentiate (see pages 421 to 430).
6. Second Study.

   The requirements will be similar to those of the Senior Grade of the local examinations.

   If the candidate's chief study is Singing, Pianoforte Accompaniment will be accepted as second subject.

Third Examination (Final)

(Written Examination.)

1. Harmony and Counterpoint in not more than four parts.
2. History of Music from the 16th century to the present day.
3. Form and Analysis.
4. Some acquaintance with the principles either of the Physiology of the Voice or of Acoustics.
5. A paper on the Art of Teaching of the candidate's chief subject.

   Candidates must write a paper, which should be sent at least a week before the examinations, dealing with technical difficulties met with in teaching, and how to overcome them, also giving a gradu-

ated list of studies and pieces best adapted for the development of this branch of musical study. The paper must be the unaided work of the candidate, and be accompanied by a declaration to that effect.

Viva Voce Examination

Requirements will be found under a separate heading corresponding to the candidate's chief subject.

PIANOFORTE

1. (a) To demonstrate method of instruction as regards posture, finger-training, wrist and arm action, etc.
   (b) To illustrate gradations of touch.
   (c) To differentiate between mechanical and æsthetic expression.
   (d) To explain the principles of fingering, and, if required, to finger passages.
   (e) To distinguish between use and misuse of pedals.
   (f) To illustrate good part playing.

   If thought necessary by the examiner, a student (not a pupil of the candidate) will be in attendance, so that the candidate may more easily and effectually demonstrate his or her ability to deal in a practical manner with the above points, and any others which may occur.

2. Candidates must be prepared to play the following:—
   (a) English Suite, No. 11, in A minor, or No. 4 or Prelude and Fugue No. 15 in G ..... BACH
   (b) Sonata, either Op. 31 No. 2, or Op. 31 No. 3, or Op. 53, or Op. 54, or Op. 57 ..... BEETHOVEN
   (c) Humoresque ..... SCHUMANN
   or any two Ballades ..... BRAHMS
   or any two Intermezzi ..... BRAHMS
   (d) Any one of the Etudes ..... CHOPIN
   and Rhapsodie Hongroise No. 13 or 14 ..... LISZT
   (e) A piece of the candidate's own choice by a modern English, French or Russian Composer.

3. Sight Reading Test.

VIOLIN

1. To demonstrate method of finger-training and bowing, posture, and fingering, also to finger and bow certain passages, if required.

2. Should the Examiner desire it, the candidate must be prepared to give a student (who must not be a pupil of the candidate) a specimen lesson, correcting, if necessary, any errors in bowing, intonation, posture, fingering, etc., and to answer questions and offer suggestions on the work after the student has retired.

3. To differentiate between mechanical and æsthetic expression.

4. To show ability to accompany on the pianoforte.

5. Candidates must be prepared to play any two Studies chosen by themselves from each of the following:—KREUTZER, FIORILLO, RODE, ROVELLI and GAVINES.

6. Pieces.

First movement of any of the ten Sonatas for Violin and Pianoforte ..... BEETHOVEN

La Folia ..... CORELLI-LEONARD

Concerto:

Any one of the following:—BEETHOVEN, MENDELSSOH, ERNST in F sharp, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAËNS in B minor, BRAHMS, WIENIAWSKI.

Romance in E minor ..... SINDING

or

Havannaise ..... SAINT-SAËNS

or

Rhapsodie Piedmontèse ..... SINIGAGLIA

7. Sight Reading Test.

VIOLONCELLO

See under Violin for requirements 1, 2, 3, 4 and 7.

Candidates must be prepared to play:

Nos. 11, 16 and 20 Studies ..... DUPORT

Any one of the five Sonatas (selected by the candidate) .... BEETHOVEN

To show a general knowledge of the Six Suites ..... J. S. BACH

Also, "A la Source," Op. 20, No. 2 ..... DAVIDOFF

Romance ..... WAGNER-POPPER

ORGAN

1. To demonstrate method of instruction for overcoming difficulties in pedal technique, clear part playing, independence of hands and feet, position of body, stop management, etc.

2. To answer questions as to the causes of difference of tone between the various stops.

3. To explain the principles of pedalling and mark passages submitted to candidates for that purpose.

4. To be prepared to play the following pieces:—
   A Sonata by BACH, also a Sonata by either MENDELSSOHN or RHEINBERGER or MERKEL, and two pieces by modern composers (one should be British) selected by the candidate.

5. Sight Reading Test.

6. To extemporize and transpose.

SINGING

1. To demonstrate method of instruction in proper methods of breathing, tone, attack, unevenness of tone, intonation, expression, overcoming of awkward breaks, resonance, facial expression and posture.

2. To read (at the pianoforte) a simple accompaniment at sight, and also transpose within the limits of a major second above or below.

3. In passages given by the examiner, to phrase or insert breath marks.

4. Candidates must be prepared to give illustrations of Recitative, Solo singing in Opera or Oratorio, and to sing one song of any one composer in each of the following three groups:—
   (a) BACH, HANDEL, MOZART, BEETHOVEN, MENDELSSOHN, SCHUBERT, SCHUMANN.
   (b) FRANZ, BRAHMS, LOEWE, WOLF, STRAUSS, PARRY, ELGAR.
   (c) GOUNOD, MASSENET, GERMAN, BALAKIREFF, LISZT, MALLINSON, GRIEG, HAHN, and DEBUSSY.

EXAMINATION FOR CERTIFICATE SHOWING CANDIDATE'S FITNESS AS MUSIC INSTRUCTOR FOR CLASS WORK IN THE ELEMENTARY SCHOOLS

Fee $10.00

THEORETICAL

The examination will be in two parts: (a) Written; (b) Viva Voce. In the written part of the examination a paper will be given dealing with the general questions on the teaching of class singing in an elementary school.

The paper will be divided into four parts: (a) Voice Training; (b) How to teach Sight Singing in the Movable Doh System, using Solfa syllables only, and on its application to the staff notation; (c) Ear Training; (d) The teaching of songs.

As regards (b) emphasis will be laid on the mental effect produced when teaching tune, and on the use of time names when teaching rhythm in both notations.

The following text-books are recommended:—

"Voice Culture," Part I; Chaps. 1-3 inclusive.....BATES
(Published by Novello.)

"The School Music Teacher," Chaps. 1-7 inclusive and Appendices II and III (published by Curwen).....EVANS and MCNAUGHT

PRACTICAL (ELEMENTARY)

1. Sight Singing.

Two tests will be given, one in Solfa syllables only and one in Staff Notation, containing leaps to any note of the diatonic scale, with a transition to either 1st sharp (dominant) or 1st flat (sub-dominant) key, and containing chromatic notes introduced stepwise. Only the following divisions of the beat will be used, half-beat, three-quarters and a quarter, with some sustained notes. In Staff only the following time-signatures will be used, 2/4, 3/4, 4/4, 6/8. One of the tests will be in the minor mode, containing the sharpened sixth and seventh. (Not more than three attempts will be allowed, and the last time the test must be sung to la.)

2. Time.

Two tests will be given, one to Solfa syllables, and one in Staff Notation, to be sung first to time-names, and then to a monotone. (Two attempts allowed.)

In 2/4, 3/4 and 4/4 time (two, three and four pulse measure). The beat may be divided into halves, triplets, or any division containing one or two quarters. In 6/8 time (six-pulse measure) the more minute divisions of the beat will not be given.

3. Ear Test.

(a) The candidate will write down in either notation a short phrase of not more than six notes. The name of the key will be given and the tonic chord (d.m.s.) sung or played each time.

(b) The time names of a short passage will be asked and the passages must be written down in either notation. The tempo will be given. (Two attempts allowed.)

4. Candidates must be prepared to write on a black-board, as for a class, a short sight-singing test in both notations.

5. Candidates must be in possession of a certificate showing they have passed the Junior Grade in Pianoforte of McGill Local Examinations in Music.

EXAMINATION FOR CERTIFICATE SHOWING CANDIDATE'S FITNESS AS MUSIC INSTRUCTOR FOR CLASS WORK IN HIGH SCHOOL OR COLLEGIATE INSTITUTE

Fee $15.00

PART I (THEORETICAL)

A paper will be given demanding a more comprehensive knowledge of the methods and principles involved in the teaching of class singing. This paper will be divided into the same number of sections as the elementary paper, the following text-books being recommended for information:—

"Voice Culture," Part I (published by Novello).....BATES
"The Singing Class Teacher" (published by Williams).FIELD HYDE

PART II (PRACTICAL)

1. Sight Singing.

   Two tests will be given, one to Solfa syllables and one in Staff Notation, containing more difficult leaps as well as leaps to chromatic notes with a transition to some more remote key. One of the tests will be in the minor mode containing a transition. (Not more than three attempts will be allowed and at the last attempt the test must be sung to la.)

2. Time.

   Two tests will be given, one to Solfa syllables and one in Staff Notation, sung first to time-names and then to la. (Two attempts allowed.) The pulse will be divided into more minute divisions, and syncopation will be introduced.

3. Ear Test.

   (a) The candidate will write down in either notation, in time and tune, a short melody. The name of the key will be given and the tonic chord (d.m.s.) sung or played each time.

   (b) The time-names of a short passage will be asked and the passage must be then written down in either notation. The pulse will be more divided than in the elementary grade. The tempo will be given. (Two attempts allowed.)

4. Three school songs must be chosen and prepared by the candidate and sung to his or her own accompaniment. Two of the songs should be of the folk-song and one of the art-song type. Correct voice production and interpretation will be a necessity.

5. Candidates must be in possession of a Certificate showing they have passed the Intermediate Grade in Pianoforte of McGill Local Examinations in Music.

LOCAL CENTRE EXAMINATIONS IN MUSIC

Recognizing the necessity of helping to raise the standard of musical education in Canada, and at the same time to bring the influence of competent examiners to bear upon instruction, McGill University holds local examinations throughout the Dominion. In view of the fact that it grants Degrees in Music and a Diploma of Licentiate, the University extends its field of work by means of these local examinations, which are preparatory to those for Degrees and Diplomas.

The Examiners are appointed by the Board of Governors of the University, the Chairman of the Examining Board being Dr. Harry Crane Perrin, the Dean of the Faculty of Music and Director of the Conservatorium.

GENERAL REGULATIONS

1. All fees must be paid in advance direct to the Secretary of McGill University Conservatorium of Music, 323 Sherbrooke Street West, Montreal, who will supply forms of entry. These can also be obtained from the local representatives or local secretaries.

2. A local representative of McGill University will supervise the conduct of the theoretical examinations at each centre. All papers will be sent to McGill University itself, and, in the case of the local examinations, examined by a Board consisting of at least three examiners.

3. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.

4. The Principal of a school may arrange with the Secretary to send an examiner to report on the musical education gained at the school. No individual certificates will be awarded in this case, but merely a collective detailed report drawn up by the examiner and sent to the Principal of the school.

5. Similar arrangements may be made with regard to Class Singing.

6. In case of a candidate being prevented by serious illness from attending any examination, the Secretary is authorized, on receipt of a medical certificate, which must, however, reach him at least five days before such examination, to transfer a candidate to the next examination without further fee.

7. As an additional assurance of fair treatment of every candidate, two examiners will be present at each examination in practical

subjects throughout the Dominion, wherever it is at all possible to arrange that such shall be the case. This must necessarily largely depend on the number of candidates presenting themselves for examination.

8. Examinations will be arranged by the Secretary when required, and new centres formed where not less than ten candidates are entered, provided the amount of fees is sufficient to meet the expenses incurred.

ADVICE TO TEACHERS AND CANDIDATES

1. Candidates are advised not to attempt too high a grade when first entering for the local examinations, which are arranged in a systematic course of progressive grades, beginning with the Lowest or Primary grade and leading on through the Diploma examination for Licentiate of Music to that for the Degree of Mus. Bac.

2. Teachers as well as candidates are urged to regard the particular studies and pieces selected for examination in any one grade as indicating the degree of difficulty, and not to confine their attention for a whole year to the preparation of two or three examination pieces.

3. In preparation, teachers and pupils should use music of a lower grade at the beginning of the winter, and should not begin too early with the actual grade book selected for examination at the end of the session. Lack of interest often ensues from the monotony entailed by candidates concentrating their whole attention on the examination book for too long a period.

4. Books for past years, which contain well-assorted standard studies and pieces, will be found useful by teachers and pupils alike, whether for repertoire study, reading at sight, or analysis purposes. Price, 50c, per book, obtainable from the General Secretary.

REGULATIONS FOR LOCAL CENTRE EXAMINATIONS FOR CERTIFICATES

1. Theory examinations will be held throughout the Dominion on May 1st, 1929. Candidates wishing to take an examination in a practical subject in the same year as the theoretical examination, if unsuccessful in the latter, can still proceed to the practical examination, and if they satisfy the examiner or examiners in this, they must present themselves at a supplemental theoretical examination held later in the same year, which, if they pass, entitles them to receive the certificate for the practical examination.

2. Practical examinations will be held during May and June, 1928.

3. For both theoretical and practical local examinations, forms of application, duly filled in by the candidate, and accompanied by the

examination fee, MUST REACH THE SECRETARY IN MONTREAL ON OR BEFORE APRIL 1st, 1929.

4. Certificates will be awarded to successful candidates in both theoretical and practical subjects. They will be of two kinds in each grade: (a) Distinction; (b) Pass.

5. These certificates do not entitle the holders to append any letters to their names.

6. The maximum number of marks obtainable in each practical subject is 100, of which 60 entitles to a Pass and 80 to Distinction.

7. The maximum number of marks obtainable in each theoretical subject is 100, of which 60 entitles to a Pass and 80 to Distinction.

8. No special text-books are prescribed for theoretical examinations, and no particular method or style is specified for practical examinations. No particular edition is prescribed for pieces found in the syllabus, but for the convenience of teachers and candidates the University publishes, in separate books for each grade, the studies and pieces required for the Pianoforte Examinations, which can be obtained direct from the General Secretary or from the various local music dealers.

9. Candidates presenting a study or piece not prescribed by the current syllabus, run a risk of being disqualified.

10. Candidates entering for practical subjects must, in all grades except the two last (Elementary and Primary), previously work a theory paper of the preceding lower grade during the same year or the preceding year.

11. Only one candidate at a time is allowed to be in the examination room for practical examinations.

12. The accompanist for all examinations, where one is needed, is allowed to be in the examination room only to accompany the songs and pieces.

13. The examiner's decision is final, and cannot be reconsidered.

14. The possession of certain certificates granted by other institutions may exempt the holder from the necessity of taking the Theoretical part of the Local Examinations. In making application for exemption the holder of such certificates must give explicit information to the General Secretary at least one month before the date of the examination, and be prepared to produce the original certificate, if required.

FACULTY OF GRADUATE STUDIES AND RESEARCH

GENERAL STATEMENT

The Faculty of Graduate Studies and Research directs and controls all the courses leading to the higher degrees and recommends candidates for these degrees.

The members of the Faculty are the heads of departments and certain others on the staff of the University who offer and give *bona fide* courses of instruction of a graduate character and who superintend research work for the higher degrees. The members are appointed by the Board of Governors on the recommendation of the Principal. Other members of the staff, not members of the Faculty, who give graduate work of an approved character, have the rank of Associates of the Faculty.

The functions of the Faculty are *inter alia*:—

(1) To approve of the courses submitted by the heads of departments giving graduate instruction.

(2) To determine the conditions under which students may become candidates for higher degrees.

(3) To conduct examinations for such degrees.

The routine executive work of the Faculty, such as the admission and registration of students, the determination of the courses which they must take, the approval of the students' fulfilment of the requirements and the arrangements for the examinations are in charge of an Executive Committee appointed by the Faculty, which at stated intervals reports its proceedings to the Faculty as a whole.

ADMISSION

Advanced courses of instruction are offered to students who are graduates of any university of recognized standing. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

REGISTRATION

Application for registration as a graduate student should be made to the Dean of the Faculty of Graduate Studies and Research. The application should be made in triplicate on special printed forms which may be obtained at the Dean's Office. This, when filled out, will give the necessary information with reference to the degrees held by the

candidate, the courses of undergraduate study which he has followed, and the courses of graduate study which he desires to pursue. With the approval of the department a student may register for a half course at the beginning of the second term. All applications for courses of graduate study must be filed with the Dean of this Faculty on or before October 8th of each year. The regular courses of instruction begin on October 1st, 1928. As soon as the candidates' course has been approved by the Executive of the Faculty, he must register without delay at the office of the University Registrar. He will not be given credit for attendance until he does so. Candidates whose course extends for more than one year must register at the commencement of each year of their course. *If not registered at the beginning of the academic year, as provided above, the candidate shall not be eligible for the degree at the following Spring Convocation.*

DEGREES

Graduate students may proceed to one or other of the following degrees:—Master of Arts, Master of Science, Master of Science in Agriculture, Doctor of Philosophy, Doctor of Literature, Doctor of Science, Doctor of Music.

RESIDENT GRADUATE STUDY

Every candidate for a higher degree is required to take at least one year of resident graduate study in McGill University. The unit of student work in this Faculty is one lecture hour per week for the session (i.e. the academic year). For purposes of finding an approximate equation covering the different recognized classes of work, one hour of seminar, colloquium or tutorial work is regarded as equal to two hours of lecture work, two hours of laboratory work to one hour of lecture work, and one hour of approved department society work to one hour of lecture work. Each student in addition to his or her thesis requirements shall complete six units for the Master's degree, or first year in course for Ph.D., four units for the middle year and three units for the final year leading to the degree of Doctor of Philosophy. At least 50 per cent of the instruction in the first year shall be in courses offered exclusively to graduate students. It is understood that the student may take any number of years he chooses more than the minimum in order to complete these requirements.

Members of the teaching staff of the University who are students in the Graduate Faculty and who give twelve hours of instruction per week may not obtain a Master's degree in one year, and will require at least an additional year for the degree of Ph.D.

COURSES AT MACDONALD COLLEGE

Graduate students who are taking the major part of their work at Macdonald College may go into residence there and can take, when required, other graduate courses given at the University.

WOMEN STUDENTS

Women Students registering in this Faculty are invited to call at the Royal Victoria College for information concerning the following:—

1. The Alumnæ Society of McGill University, for membership in which they are eligible.
2. The University Women's Club, 3492 Peel St. (including residence accommodation), for membership in which they are eligible.
3. The Monteregian Club, 22 McTavish St., for women engaged in educational work, and others (including residence accommodation), for membership in which they are eligible.

They can also obtain from the Secretary of the Royal Victoria College the addresses of boarding houses in Montreal, and they may, if they wish, make arrangements to obtain luncheon in the College.

REGULATIONS FOR THE DEGREE OF MASTER OF ARTS (M.A.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following departments of study which rank as "Subjects":—

Greek Language and Literature.
Latin Language and Literature.
Romance Languages and Literature.
Germanic Language and Literature.
English Language and Literature.
Oriental Languages.
Theological Studies (see paragraph 6).
Philosophy.
Psychology.
History.
Economics and Political Science.
Mathematics.
Sociology.

The requirements for the degree are as follows:—

(1) Candidates must hold the degree of B.A. or B.Sc. (in Arts) from McGill University, or its equivalent.

(2) One or two subjects may be taken.

(3) When two subjects are taken one of them shall be designated as the major subject and special attention shall be paid to it. It must

be a subject which the candidate has already studied in his undergraduate course, and the work required in it will represent an attainment in knowledge far in advance of that required for the B.A. degree. The minor subject, if taken, must be a cognate subject and be approved by the head of the major department. Not more than one-third of the candidates' time for the year shall be devoted to the minor. The course of study selected by the student must receive the approval in writing of the heads of the departments concerned and also of the Faculty of Graduate Studies and Research. The candidate shall pass an examination in each of the subjects of his course.

(4) The candidate shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the head of the department concerned and to the Faculty of Graduate Studies and Research for their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be in good literary style.

(5) The thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 29th, if the candidate wishes to present himself for the degree at the Convocation in May.

(6) *Theological Studies.* A selection from the courses set forth under the head of Theological Studies may be taken as fulfilling the requirements of a minor subject for the degree of Master of Arts.

REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE (M.Sc.)

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following departments of study which rank as "subjects" :—

Mathematics.
Physics.
Engineering Physics.
Chemistry.
Agricultural Chemistry.
Biochemistry.
Botany.
Plant Pathology.
Geodesy.
Thermodynamics and Theory of Heat Engines.
Theory of Elasticity, Strength of Materials and Theory of Structures.
Highway Engineering.
Zoology.
Entomology.
Anatomy.
Pathology.
Bacteriology.
Physiology.
Pharmacology.
Geology and Mineralogy.
Hydrodynamics and Hydraulics.
Electrical Engineering.
Theory of Machines and Machine Design.
Metallurgy.
Mining.

The requirements for the degree are as follows:—

(1) Candidates must hold the degree of B.A. or B.Sc. or B.S.A. from McGill University, or its equivalent.

(2) The course of study followed by the candidates shall be of an advanced character, being the equivalent of that required for the degree of M.A., and shall lie in the domain of pure or applied science. It may be selected from any one or (at the discretion of the head of the department in which the major subject is) two subjects included in the list given above. This course of study, which must be of a comprehensive character, must have been previously submitted to the head of the department and to the Faculty of Graduate Studies and Research and have received their approval in writing. The candidate shall pass an examination in each subject of his course.

(3) The candidate shall also present a thesis on some subject connected with his course of study. The title of the thesis must have been previously submitted to the head of the department and to the Faculty of Graduate Studies and Research and have received their approval in writing. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style.

(4) The thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 29th, if the candidate wishes to present himself for the degree at the Convocation in May, except in the case of theses involving experimental work, when the time will be extended to May 12th. No thesis received after these dates will be accepted.

REGULATIONS FOR THE DEGREE OF MASTER OF SCIENCE IN AGRICULTURE (M.S.A.)

Agronomy must be taken as the major subject for this degree.

The requirements for the degree are as follows:—

(1) Candidates must hold the degree of B.S.A. from McGill University, or its equivalent.

(2) Candidates must take one year of resident graduate study at Macdonald College, Faculty of Agriculture, McGill University.

(3) One or two subjects may be taken.

(4) When two subjects are taken, one of them shall be designated as the major subject and special attention shall be paid to it. It must be a subject which the candidate has already studied in his undergraduate course, and the work required in it will represent an attainment in knowledge far in advance of that required for the B.S.A. degree. Not more than one-third of the candidate's time for the year shall be devoted to the minor subject. The candidate shall pass an examination in each of the subjects of his course.

(5) The course of study selected by the student must receive the approval, in writing, of the heads of the departments concerned and also of the Faculty of Graduate Studies and Research.

(6) The candidate shall also present a thesis on some topic connected with his major subject. The title of his thesis must have been previously submitted to the Faculty of Graduate Studies and Research and the head of the department concerned, and have received their approval in writing. The thesis must be a contribution to knowledge and must also be written in good literary style.

The thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 29th, if the candidate wishes to present himself for the degree at the Convocation in May. If the course involves laboratory work the thesis must be submitted before May 12th.

(7) Candidates for the M.S.A. degree who select agronomy may register in September or January. In the latter case they will be expected to remain in residence until the end of September, and application must be made before February 1st. It is recommended that one summer be spent in the Agronomy Department, before or during the course, to allow for practical, field, laboratory and thesis work during the growing season.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

(1) Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. or B.Sc. or M.D. from McGill University, or its equivalent.

(2) They must follow a course of at least three years' resident graduate study. Of these at least one must be at McGill University, preferably the final year. The other two may be spent at institutions approved by the Faculty of Graduate Studies.

(3) They must select one major subject and one or two minor subjects. The minor subjects or subject must be cognate to the major subject and must be approved by the head of the department in which the major is. Approximately one-quarter of their time shall be devoted to the minor or minors.

No subject will be accepted as a minor which constitutes a part of the major subject for the Ph.D. degree.

Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Bacteriology.
Botany.

Biochemistry.
Chemistry.
Economics.
Psychology.
Pharmacology.
Physics.
Physiology.
Plant Pathology.
Oriental Languages.

In special cases heads of departments may be able to provide courses in other subjects which will lead to this degree. Candidates, therefore, desiring to proceed to the degree of Doctor of Philosophy in other departments than those mentioned above should make direct application to the Faculty of Graduate Studies and Research, asking whether courses in such subjects can be provided.

(4) The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the heads of the several departments concerned and to the Faculty of Graduate Studies and Research and have received their written approval.

(5) On December 14th of the second year every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of both French and German. The examination shall be set by the Department in which the candidate is taking his major; the passages chosen will be typical of the literature of his major subject. The Departments of Germanic and Romance Languages will act as examiners.

(6) The first two years shall include instruction, training and direction in his field of study, with the view of giving the candidate a knowledge of his particular subject and its relation to cognate branches of learning, and of preparing him for independent investigation.

After the completion of the examination in languages and in his minor subject or subjects, the Preliminary Examination shall be held at the end of the second year of the course. This examination shall cover all graduate work previously taken by the candidate, including his prescribed reading, and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination shall be both written and oral.

The result of this examination will determine whether the candidate will be allowed to proceed to his degree. The final year is to be devoted chiefly to the preparation of his thesis or dissertation.

After his thesis has been received and approved, a special and more searching oral examination on the subject of his dissertation and

subjects more intimately related to it will constitute his final examination. This will be conducted in the presence of a committee of at least four of the Faculty of Graduate Studies.

(7) The thesis for the Doctor's degree shall display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the head of the department in which the major subject lies and also by the Faculty of Graduate Studies and Research, at least twelve months before the date of the final examination. If the candidate wishes to present himself for the degree at the Convocation in May, this thesis must be in the hands of the Dean of the Faculty of Graduate Studies and Research on or before April 25th. No thesis received after this date will be accepted.

One week before the Convocation at which the degree is to be conferred, a typewritten copy of the thesis, accompanied by a statement from the head of the department that the copy in the form submitted has been accepted, shall be filed in the office of the Dean of the Faculty of Graduate Studies and Research. This copy must be left there till one hundred printed copies have been deposited in the Library.

The candidate shall at the same time deliver to the Dean of the Faculty of Graduate Studies and Research a legal contract that he will furnish the Library with one hundred printed copies by a specified date. The publication furnished by him must be a separate print, containing only the thesis.

Upon recommendation of a department and the approval of the Faculty of Graduate Studies and Research, a briefer form of the thesis than that approved for the degree may be accepted in fulfilment of the publication requirement. This shall contain an account of the method followed in the investigation, an abstract of the evidence adduced and a full summary of the results obtained. Those who adopt the plan of submitting reprints of their papers shall submit to the Library two typewritten copies of the complete thesis and 300 copies of their published work on the subject.

REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.)

Any person who has graduated as B.C.L. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of

a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. A very high standard is required for this degree, but it does not call for any resident graduate study in the University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF LITERATURE (D.Litt.)

Bachelors of Arts of McGill University who are graduates of at least seven years' standing, and who have distinguished themselves by special research and learning in the domain of arts and literature, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Literature. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree.

REGULATIONS FOR THE DEGREE OF DOCTOR OF SCIENCE (D.Sc.)

Bachelors of Arts, Bachelors of Science or Doctors of Medicine of McGill University, who are graduates in one or other of these Faculties of at least seven years' standing, and who have distinguished themselves by special research and learning in the domain of science, may submit their published works to the Faculty of Graduate Studies and Research and apply for the degree of Doctor of Science. A very high standard is required for this degree, but it does not call for any resident graduate study at the University. Graduates of other universities are not eligible for this degree.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC (Mus. Doc.)

Bachelors of Music of McGill University, after the lapse of a period of seven years from the time of taking that degree, may proceed to the degree of Doctor of Music, the requirement for which is a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the usual concert overture form, and must contain eight-part writing and fugal treatment. It must be scored for a full orchestra. If preferred, a candidate may present a composition scored for orchestra in the form of a symphony, symphonic poem or tone poem, occupying not less than forty minutes in performance. In addition, an examination in the higher forms of composition shall be necessary, together with a critical know-

ledge of the full scores of certain prescribed works. This degree is open only to graduates of the Faculty of Music of McGill University.

REGULATIONS CONCERNING THESES

In the case of students who wish to graduate at the Spring Convocation, all theses for the degree of Master of Arts, and for the degree of Master of Science, must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 29th. Theses for the degree of Ph.D. must be handed in on or before April 25th.

All theses for the degree of Master of Science which involve experimental work, as well as all theses for the degree of Master of Science in Agriculture, must be in the hands of the Dean not later than May 12th.

In the case of students who wish to graduate at the Fall Convocation, their theses must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 14th.

Owing to the fact that all theses submitted by successful candidates for higher degrees will be bound and placed in the Library, candidates for such degrees are advised that the Faculty of Graduate Studies and Research will henceforth require these to be prepared in a uniform manner and in accordance with the following specifications—

(1) The paper is to be of uniform size, 8½ x 11 inches, and of substantial quality.

(2) The left-hand margin is to have a uniform width of about 1½ inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.

(3) All theses must be typewritten and **in duplicate.**

(4) No binding is necessary, but the loose sheets must be placed in a manila envelope in the order of their pagination.

In the case of candidates presenting themselves for the degree of Doctor of Science, Doctor of Literature or Doctor of Civil Law, two copies of the book or books—or for the degree of Doctor of Civil Law, should a thesis be substituted, two typewritten copies of the thesis—must be submitted to the Dean of the Faculty of Graduate Studies and Research not later than *February 14th* of the year in which the candidate desires to take the degree.

INTERCHANGE OF STUDENT TEACHERS

An arrangement has been made between the National Committee for the Training of Teachers, Scotland, and McGill University, for the reciprocal exchange of student teachers.

The students coming to McGill will be Honour Graduates in Arts or Science and probably also in Education. They may make a special study of Education or may take up any course leading to the degree of M.A., M.Sc., or Ph.D. If they study for a higher degree, the period and conditions of study will be fixed by the Faculty of Graduate Studies and Research on the recommendation of the Head of the Department in which the work is to be carried on. They will be assisted for one year and possibly for two. Students who study Education will be called upon to furnish a detailed report on their work, in which case only one year's studentship will be allowed. Details of the teaching work will be arranged by the Dean of the School for Teachers.

Students going from McGill must be Bachelors of Arts, or Bachelors of Science in Arts, or Masters of Arts.

They will be assisted for one year and in special cases for two. The allowance will be $1,200 per annum.

They will be expected either to study for a higher degree or to make a detailed study of Scottish educational systems. In the latter case, only one year's studentship will be allowed.

A student teacher, holding an M.A. degree from McGill, may be able to obtain a Scottish Ph.D. in two years.

Applications must be sent to the Principal before May 1st. These must state:—(a) University qualifications; (b) Teaching experience; (c) Any general experience; (d) Whether the student proposes to study for a higher degree and, if so, for what degree and whether or not he requires one or two years' assistance.

COURSES OF GRADUATE STUDY

DEPARTMENT OF AGRONOMY

(Macdonald College)

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

ROBERT SUMMERBY:—*Professor of Agronomy.*

ASSOCIATES OF THE FACULTY

ALEXANDER MCTAGGART:—*Assistant Professor of Agronomy.*
L. C. RAYMOND:—*Assistant Professor of Agronomy.*

Courses for the Degree of Master of Science in Agriculture

Candidates for the degree of Master of Science in Agriculture who take Agronomy as a major are expected to have had a good training in general Agronomy, Botany and Genetics.

Courses 1, 2, 3, 6, and one other are required. The remaining work to fulfil the requirements for the M.S.A. degree may be chosen from other courses in Agronomy or in the cognate sciences. Those who have not had a training in Agronomy equivalent to undergraduate specialization will be expected to fulfil the requirements of the courses which they lack.

1. Crop Production. The fundamental principles of crop growth, and their relation to methods and practices of crop production. Two lectures and one laboratory period for one term.

2. Crop Breeding. A basis for the plant breeding work in Courses 4 and 5. One lecture for one term.

3. Experimentation. The application of statistical methods to agronomic investigations. One lecture and two laboratory periods for one term.

4. Forage Crops. Classification, production, breeding, and investigations.

(a) Hay and Pasture Crops.

(b) Corn and Roots.

Two lectures and two laboratory periods for two terms.

5. Grain Crops. Classification, production, breeding, and investigations. Three lectures and three laboratory periods for one term.

6. Seminar. Fortnightly during the year.

DEPARTMENT OF ANATOMY

MEMBER OF THE FACULTY OF GRADUATE STUDIES

S. Ernest Whitnall:—*Professor of Anatomy.*

ASSOCIATE OF THE FACULTY

James C. Simpson:—*Associate Professor of Histology and Embryology.*

Courses for the Degree of Master of Science

Candidates must possess a degree in Medicine as a pre-requisite. A course of advanced study in Anatomy and cognate subjects will be provided by the Professor upon request.

Courses for Graduate Students not necessarily proceeding to a degree, i.e., part time students:—

1. Anatomy.

(a) Special course on the detailed structure of the ear, nose and throat (for specialists in Oto-Laryngology).
(b) Special course on the detailed structure of the orbit and eye (for specialists in Ophthalmology).
(c) Course in Anatomy for Dental graduates.

These courses include the histology and surgical anatomy of the regions noted, and facilities are afforded for practical dissection and operative work as far as may be possible. The courses consist of laboratory work, study of preparations in conjunction with selected works of reference and followed by colloquia. Each course extends over two months with attendance of two hours a morning on two days a week by arrangement.

Professor S. E. Whitnall.

2. Histology.

A course on the histology of the tissues and organs in human and mammalian types. One hundred and sixty hours' laboratory and forty hours' lecture work extending from September to February (ten hours per week).

Professor J. C. Simpson.

3. Embryology.

General course in Organogenesis, 30 hours of lectures and demonstrations; one period a week.

Professor J. C. Simpson.

4. Physical Anthropology.

Instruction in the principles, aims and methods of Physical Anthropology. Times to be arranged.

Dr. J. Beattie.

5. Neurology.

A series of colloquia on recent work in the Nervous System. Time to be arranged.

Dr. J. Beattie.

DEPARTMENT OF BACTERIOLOGY

(Macdonald College)

ASSOCIATE OF THE FACULTY

J. Raymond Sanborn:—*Assistant Professor of Bacteriology.*

Courses for the Degree of Master of Science

Those set forth below, together with certain others in Bacteriology and Serology given in the Faculty of Medicine. See page 55.

1. Soil Bacteriology. Technique and special methods, a general and special study of the microbiology of the soil.

One lecture and six laboratory hours per week for one year; six colloquia.

2. Pathogenic Microbiology, including methods and technique of general pathological investigation.

One lecture and six laboratory hours per week for one year; six colloquia.

3. Bacterial Diseases of Plants, technique and special methods. Bacterial plant diseases prevalent in Canada and the Northern United States.

One lecture and six laboratory hours per week for one year; six colloquia.

Prerequisites for students taking Bacteriology as their major subject are:—At least one course in general microbiology of a year's duration; chemistry (inorganic and organic) and physics. Advanced mathematics and more chemistry, particularly physical and physiological, are advised.

Students selecting soil bacteriology should have had previous courses in the physics and chemistry of soils and farm crops.

A preliminary course in histological studies and technique and work in hygienic or pathogenic bacteriology are expected of students taking pathogenic microbiology.

Requirements for the Degree of Doctor of Philosophy

See page 54 under Pathology and Bacteriology.

DEPARTMENT OF BIOCHEMISTRY

MEMBER OF THE FACULTY OF GRADUATE STUDIES

ARCHIBALD BYRON MACALLUM:—*Professor of Biochemistry* (On leave of absence).
JAMES BERTRAM COLLIP:—*Professor of Biochemistry.*

ASSOCIATE OF THE FACULTY

S. W. BLISS:—*Assistant Professor of Biochemistry.*

Courses for the Degree of Master of Science

Advanced lectures and laboratory work on the following:—

1. **General Biochemistry.**
2. **The Chemistry of Animal Metabolism.**

These courses will involve about sixty lectures and about two hundred hours of laboratory work, the latter in addition to the research for the preparation of the dissertation for the degree.

Candidates who desire to proceed to the M.Sc. degree in biochemistry must have a good knowledge of chemistry (inorganic, organic and physical) and must have taken (or must take concurrently with the work for this degree) all the undergraduate work in Biochemistry.

Courses for the Degree of Doctor of Philosophy

The courses offered by the department, covering what will be required for Biochemistry as a major subject for the degree, will involve the extension of those listed above and also the following:—

1. **Organic Colloids in their Chemical and Physical Relations.**
2. **Laboratory Methods of Synthesis of a Number of Bio-organic Compounds.**

3. **Energy Transformations in the Animal and Vegetable Cells.**

4. **Problems of Biophysics.**

5. **Methods and Results in the Microchemistry of the Animal and Vegetable Cells.**

6. **Oxidation and Reduction in the Animal Cell.**

7. **Recent Advances in the Knowledge of Protein Metabolism.**

These courses will involve about one hundred lectures, to be given in the last two of the three years required for the degree. The candidate must attend and participate in the colloquia held weekly for graduate students in the department.

The requirements for registration for the degree of Ph.D., with Biochemistry as the major subject, are the same as those for the M.Sc.

DEPARTMENTS OF BOTANY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

FRANCIS E. LLOYD:—*Professor of Botany.*

ALBERT H. GILBERT:—*Professor of Plant Pathology (Macdonald College).*

ASSOCIATES OF THE FACULTY

CARRIE M. DERICK:—*Professor of Comparative Morphology and Genetics.*

GEORGE W. SCARTH:—*Associate Professor of Botany.*

J. G. COULSON:—*Assistant Professor of Plant Pathology (Macdonald College.)*

Courses for the Degree of Master of Science

1. **Embryology of the Spermatophyta.**
   4 laboratory hours, including conference, throughout the session .....Professor Lloyd.
2. **Taxonomy.** Critical Studies.
   4 laboratory hours, throughout the session....Professor Lloyd.
3. **History of Botany.** Reading.
   Required of all candidates for higher degrees. Professor Derick.
4. **Plant Galls.**
   4 laboratory hours, for one term.....Professor Lloyd.

5. **Protoplasmic Studies.**
   4 laboratory hours, throughout the session.....
   Associate Professor Scarth.

6. **Cytology.**
   4 laboratory hours, throughout the session....Professor Lloyd.

7. **Morphology of the Angiosperms.**
   4 laboratory hours, throughout the session...Professor Derick.

8. **Plant Physiology.** Repetitional Studies.
   4 laboratory hours, throughout the session....Professor Lloyd.
   Associate Professor Scarth.

Three courses having the approval of the Head of the Department must be taken.

Courses for the Degree of Doctor of Philosophy

9. **Experimental Plant Morphology.** Problems and Research.
   1 lecture, 12 hours laboratory, throughout the session....
   Professor Lloyd.

10. **Plant Physiology.** Problems and Research.
    (a) Cellular physiology; biophysics and biochemistry of the cell.
    (b) Growth, irritability and reproduction.
    (c) Nutrition and respiration.
    2 hours conference; 12 hours laboratory, throughout the session.....Professor Lloyd, Associate Professor Scarth.

11. **Phytogenetics.**
    2 lectures; 12 hours laboratory, throughout the session....
    Professor Derick.

12. **Phytopathology.**
    (a) Lectures and reading.
    (b) Experimental work.
    2 lectures; 12 hours laboratory, throughout the session....
    Professor Derick.

13. **Colloquium**—Weekly.

This will be attended by candidates for the degree of M.Sc. also; they will give at least two presentations, while candidates for the degree of Ph.D. will give at least four.

14. **Journal Club**—Weekly.

In the second year leading to this degree, four approved courses must be taken.

Candidates should, except for special reasons, take chemistry or physics as a minor. For genetics, statistical methods are required.

Attendance at weekly colloquia and Journal Club meetings is required of all candidates for higher degrees. Presentation by candidates of the results of published research is also required.

The following courses are given in Plant Pathology at Macdonald College, leading to the degrees of M.Sc. and Ph.D.:—

The Graduate work given in this department is in the field of plant pathology and mycology.

Candidates must have completed satisfactory undergraduate courses in plant morphology, physiology, taxonomy, histology and cytology. Specialists in plant pathology should possess a general knowledge of the fundamental practices in agronomy and horticulture.

15. History of Plant Pathology. One lecture per week for one term. Extra reading required.

16. Systematic Mycology. Two lectures and two laboratory periods per week. A detailed study dealing with taxonomy, morphology, etc.

(a) Myxomycetes and Phycomycetes. 1st term, 1928-29.
(b) Ascomycetes and Adelomycetes. 1st term, 1929-30.
(c) Basidionycetes. 1st term, 1929-30.

17. Advanced Plant Pathology. Detailed studies of plant diseases; culture and inoculation work; field and greenhouse tests in control measures, etc. Two lectures and two laboratory periods per week for two terms.

18. Physiology of the Fungi. Nutrient requirements; carbon sources in nutrition; nitrogen fixation; enzymes in nutrition; H-ion concentration; temperature, light and moisture conditions; chemotropism; phototropism; staling; spore germination conditions; biologic specialization; physiology of parasitism; symbiosis. Two lectures and two laboratory periods per week for one term.

19. Phytopathological Histology. A study of abnormal plant structures caused by myxomycetes, fungi, bacteria, insects, etc.; preparation of slides, photomicrographs, etc. One lecture and two laboratory periods per week for one term.

20. Cytology of the Fungi. Studies of sexuality; nuclear phenomena; formation of sporangium, conidium, pycnidium, perithecium, etc.; origin of setae, cystidia, etc.; development of chlamydospores, sexual and asexual spores, etc. Two lectures and two laboratory periods per week for one term.

21. Bacterial and Virus Diseases of Plants. Two lectures and two laboratory periods per week throughout the year.

22. Seminar. A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field

of general botany, physiology, cytology, histology, morphology, ecology, taxonomy, genetics, mycology, pathology. Attention will be more especially directed to such articles as have application in plant pathology or mycology. One period per week.

The course leading to the degree of Master of Science given at Macdonald College consists of 15, 22, two of 16a, 16b, 16c, and one other.

DEPARTMENTS OF CHEMISTRY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

R. F. RUTTAN:—*Macdonald Professor of Chemistry and Director of the Chemistry Department* (on leave of absence).

J. F. SNELL:—*Professor of Chemistry (Macdonald College).*

F. M. C. JOHNSON:—*Professor of Inorganic Chemistry.*

OTTO MAASS:—*Professor of Physical Chemistry.*

G. S. WHITBY:—*Professor of Organic Chemistry.*

HAROLD HIBBERT:—*E. B. Eddy Professor of Industrial and Cellulose Chemistry.*

ASSOCIATE OF THE FACULTY

W. H. HATCHER:—*Assistant Professor of Chemistry.*

Courses for Higher Degrees

***1. Advanced Organic.**
2 hrs. per week .....Dr. Whitby.

***2. Advanced Inorganic.**
2 hrs. per week.....Dr. Johnson.

***3. Advanced Physical.**
2 hrs. per week and 6 hrs. laboratory work.....Dr. Maass.

***4. Colloid Chemistry.**
2 hrs. per week and 3 hrs. laboratory work.....Dr. Johnson.

***5. Synthetical and Quantitative Organic Chemistry.**
Laboratory from 9 to 12 hrs. per week...Dr. Whitby and Staff.

***6. Advanced Inorganic and Gas Analysis.**
9 to 12 hrs. per week.....Dr. Johnson and Staff.

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* Courses open to Honours students in Arts, B.A. and B.Sc., and as alternatives for students in Chemical Engineering.

7. **Groups of 4 or 5 Lectures on Special Fields of Chemistry.**
1 or 2 hrs. per week.....Senior Members of Staff.

8. **Colloquium.**
1 hr. per week..... ———

9. **Tutorial, Inorganic and Physical.**
1 hr. per week.....Drs. Johnson and Maass.

10. **Tutorial, Organic Chemistry.**
1 hr. per week.....Dr. Whitby.

11. **Chemical or Physical Society.**
1 hr. per week.

12. **Industrial and Cellulose Chemistry.**
Course of lectures forming an introduction to the study of polysaccharides.
1 hr. per week.....Dr. Hibbert.

13. **Course of lectures on cellulose and related derivatives.**
1 hr. per week.....Dr. Hibbert.
(Courses 12 and 13 are to be given in alternate years.)

14. **Supervision of Special Reading, Assistance and Instruction in Research for Thesis.** Research in Organic Chemistry is directed by Drs. Whitby, Hibbert, MacLean and Hatcher; in Inorganic and Physical Chemistry by Drs. Johnson and Maass.

Requirements for the Degree of Master of Science

1. Advanced courses in (a) Inorganic, (b) Organic, (c) Physical and (d) Colloidal Chemistry (1 to 6).

One or more of these courses are open to Honour students and Chemical Engineers. The subject matter of these should be covered on entrance to the Faculty, but few undergraduates take all these courses, therefore candidates in the Faculty of Graduate Studies and Research are allowed to carry two.

2. Colloquium, one per week. Each candidates gives one, and, if time permits, two papers on some recent advances in chemistry. Papers are suggested and criticized by some members of the senior staff. (8.)

3. Attendance at the weekly meetings of the Chemical and Physical Societies. (11.)

4. Special graduate lectures. (7.)

5. Special reading and regular conferences with some member of the senior staff to whom the candidate is assigned. Assistance and instruction is given regarding the technique and literature of the Master's thesis. (14.)

Requirements for the Degree of Doctor of Philosophy

1. Many advanced courses given to undergraduates and graduates (see 1 to 6 above) cover different fields of chemistry each year. If the subject matter of a course be new to a graduate student, he should take this course.

2. Colloquium, for each of the three years, as above. (8.)

3. Attendance at Chemical and Physical Societies. (11.); each candidate is expected to give one lecture during his course.

4. The graduate lectures (7, 12 and 13) are not on the same subjects two years in succession. They are attended for three years.

5. Supervision of reading and regular conferences. (14.)

6. Tutorial classes. (9.)

7. Supervision and direction of research work by the member of the senior staff under whom the candidate is working. If the candidate is unable to suggest an acceptable piece of work, a special problem will be assigned to him..

The following courses are given at Macdonald College:—

Courses for the Degree of Master of Science in Agricultural Chemistry

Prerequisites:—Courses in Inorganic, Organic and Analytical Chemistry; training in Qualitative and Quantitative Analysis; courses in Physics.

1. **Chemistry of Soils and Fertilizers.** Two lectures a week during the Spring term in alternate years. Given in 1929-30. Laboratory work in analysis of soils and fertilizers. Hours for graduates variable. Supplementary reading.

2. **General Biochemistry.** Two lectures a week during the Spring terms in alternate years. Supplementary reading. Laboratory work. Hours for graduates variable. Given in 1928-9.

*3. **Chemistry of Insecticides and Fungicides.** Discussion of the composition of commercial insecticides and fungicides and of the chemical changes involved in the preparation of spraying mixtures; also of the methods of analysis of such materials with reference to the chemical principles involved. Three lectures a week during the Spring term. Laboratory work. Hours for graduates variable.

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* These courses are also open to undergraduates.

*4. **Dairy Chemistry.** Two lectures a week during the Fall term. Laboratory practice in the analysis of milk and its products. Hours for graduates variable.

*5. **Food Chemistry.** Two lectures a week during the Spring term. Laboratory practice in food analysis. Hours for graduates variable.

6. **Tutorial in Physical Chemistry.** One hour a week.

7. **Tutorial in Organic Chemistry.** One hour a week for one term.

8. **Tutorial in Colloid Chemistry.** One hour per week for one term.

9. **Seminar.** One per week.

10. **Research.** Supervision of reading and experimental work in connection with thesis.

Graduates taking Chemistry as a major subject must take the equivalent of at least six lecture hours for the courses set forth above.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

HENRY MARTYN MACKAY:—*Professor of Civil Engineering.*

ERNEST BROWN:—*Professor of Applied Mechanics and Hydraulics.*

Courses for the Degree of Master of Science

1. **Statically Indeterminate Stresses.**—General methods of stress analysis, influence lines, applications to braced arches, rectangular frameworks, etc.; theory of riveted joints; columns with lateral and intermediate loads, etc.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

2. **Technical Elasticity.**—The general equations of elasticity with various applications (special attention being paid to approximate numerical solutions); strength of flat plates, etc.; torsion of thin tubes and prisms of non-circular section; the determination of stress distribution by means of polarized light; elastic stability; vibration of structures.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.

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* These courses are also open to undergraduates.

3. Secondary Stresses.—Secondary stresses due to rigidity of joints, deflection of floor beams, eccentric connections, latticing, etc.; critical discussion of specifications for structural members in the light of tests.

One term, 2 hrs. tutorial, and 6 hrs. computation and reports.
Professor MacKay.

4. Reinforced Concrete Arches (Advanced).—Preliminary design, development of influence lines, unsymmetrical arches, elastic piers, economics of concrete arches, etc.

One term, one hour tutorial, and 6 hrs. computation and reports.
Professor MacKay.

5. Hydraulics.—General principles of hydrology in relation to power development; stream gauging and use of records; flow in streams and in open channels; back-water computations; dams and spillways; the principles of hydraulics as applied to modern turbines; general trend of turbine development; turbine testing and characteristics; special problems such as pressure surges in conduits; general consideration of water-power plants, including the study of plants in operation; turbine testing and experimental work in hydraulic laboratory.

One hour tutorial, and 6 hrs. computation and reports throughout the session .....Professor Brown.

6. Highway Engineering.—A. Highways; history of development; finance, legislation and administration; traffic; economics of design, construction and maintenance; safety provisions. B. Highway Transportation; history; relation to other forms of transportation; economics of motor transportation; regulation; traffic control.

Session. 4 hours tutorial and 12 hours computation and reports.

Professors French and McKergow and staff. Special lectures from time to time.

DEPARTMENT OF CLASSICS

MEMBER OF THE FACULTY OF GRADUATE STUDIES

WILLIAM D. WOODHEAD:—*Hiram Mills Professor of Classics.*

ASSOCIATES OF THE FACULTY

C. H. CARRUTHERS:—*Associate Professor of Classics and Lecturer in Comparative Philology.*

C. W. STANLEY:—*Associate Professor of Greek.*

A. M. THOMPSON:—*Associate Professor of Classics.*

Courses for the Degree of Master of Arts

Greek 1: Aeschylus, Oresteia.
2 hrs. Colloquia.....Professor Woodhead.

Greek 2: Economic Backgrounds of Greek History.
2 hrs. Colloquia.....Associate Professor Stanley.

Greek 3: Pindar.
2 hrs. Colloquia.....Professor Woodhead.

Greek 4: Greek Political Theory, with special attention to the Greek conception of Law.
(Works to be studied: Selected passages from Herodotus and Thucydides; Plato, *Republic of Laws;* Aristotle, *Politics.*)
2 hrs. Colloquia.....Associate Professor Stanley.

Greek 5: The Greek Theory of Knowledge—
Abstractions; particulars and universals; definition—its limits; being and not being; being and becoming; opinion and knowledge; assumptions; the possibility of ultimate knowledge.
(Works to be Studied: Selected Passages from Plato and Aristotle.)
2 hrs. Colloquia.....Associate Professor Stanley

Latin 1: Lucretius.
2 hrs. Colloquia.....Associate Professor Stanley

Latin 2: Virgil, Aeneid.
2 hrs. Colloquia.....Associate Professor Thompson.

Latin 3: Roman Satire.....Associate Professor Thompson.

Latin 4: Materials for the Life and Career of Julius Cæsar.
2 hrs. Colloquia.....Professor Woodhead.

Latin 5: Petronius and Apuleius.
2 hrs. Colloquia.....Professor Woodhead.

Courses in Comparative Philology

ASSOCIATE PROFESSOR C. H. CARRUTHERS:—*Lecturer.*

1. Introduction to the Study of Language.

For students of Classical or Modern languages. Language as a human institution; relation to thought; theories of origin; value of linguistics as a science; historical method and principles of development; changes in sound, form and meaning; language structure; writing and spelling in relation to speech; language and nationality; language

families, with special reference to the distribution of the Indo-European languages.

2. Latin Historical Grammar.

The historical development is exemplified by a study of early inscriptions.

3. Greek Historical Grammar.

The historical development is exemplified by a study of certain Greek dialect inscriptions.

4. Comparative Grammar of Greek and Latin.

An outline of courses 2 and 3, primarily for Honours students in Classics.

5. Elementary Sanskrit.

Introduction to Sanskrit inflexions and texts, and comparison with Greek and Latin forms.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

MEMBER OF THE FACULTY OF GRADUATE STUDIES

STEPHEN LEACOCK:—*Professor of Political Economy.*

ASSOCIATE OF THE FACULTY

JOSEPH CLARENCE HEMMEON:—*Associate Professor of Economics and Political Science.*

Courses for the Degree of Master of Arts

*1. **Social and Industrial Legislation.**
3 hrs.....Assistant Professor Farthing.

*2. **Great Britain:** Economic and Fiscal Problems.
3 hrs.....Associate Professor Day.

*3. **Transportation.**
3 hrs.....Assistant Professor Goforth.

*4. **Economic Geography of the Pacific.**
3 hrs. First Term. Monday, Wednesday, Friday, at 2
Assistant Professor Goforth.

*5. **Political Relations of Pacific Countries.**
3 hrs. Second Term. Mon., Wed., Friday, at 2.
Assistant Professor Goforth.

*6. **Financial and Monetary Systems of Pacific Countries.**
3 hrs. Second Term.....Associate Professor Day

* These courses are also open to undergraduates.

7. **Development of Public Policy in Canada, 1867-1897.** Parliamentary Debates and Contemporary Documents.
3 hrs in 1st term.....Professor Leacock.

8. **Development of Public Policy in Canada, 1897-1914.** Parliamentary Debates and Contemporary Documents.
3 hrs. in 2nd term.....Professor Hemmeon.

9. **Graduate Seminar.**
(Conferences with individual students on thesis work.) 1 hour.

The work in the Department is carried out with special reference to the study of the economic and political problems of Canada.

No students are admitted except those who have taken an honour B.A. degree in the department or who have completed elsewhere a course accepted by the department as equivalent to that standing.

Students who obtain the B.Com. degree under the four years' regulation and have elected all the options in Commerce for Economics courses may proceed to the degree of M.A. in Economics. Such students are required to pass the First Year Latin of the Faculty of Arts.

Course for the Degree of Doctor of Philosophy

The Ph.D. degree shall be awarded on a course of study extended over three or more years under the following conditions:

(1) Qualifications for entrance on study to be that now obtaining for admission to graduate study in Economics and Political Science.

(2) First year of study: The M.A. course and successful candidacy for the M.A. degree; the thesis subject for M.A. to be continued for the Ph.D. degree.

(3) Second year: An approved course of study at a university outside of Canada in continuance of the work on the thesis subject already selected.

(4) Third year: Resident study at McGill under the general supervision of the Department, with no fixed hours or fixed units, the work to bear on the thesis subject, and to include the preparation and printing *in book form* of the thesis, such thesis to represent a genuine and useful contribution to the literature of Economics and Political Science, as concerning especially the British Empire.

(5) The order of study of the Second and Third Year may be reversed.

(6) The holder of a position on the Staff of McGill may count his years in such a position as equal to resident study in the ratio of two teaching years to one of study.

DEPARTMENT OF ELECTRICAL ENGINEERING

MEMBER OF THE FACULTY OF GRADUATE STUDIES

CLARENCE V. CHRISTIE:—*Professor of Electrical Engineering.*

ASSOCIATE OF THE FACULTY

————————:—*Associate Professor of Electrical Engineering.*

Courses for the Degree of Master of Science

1. **Advanced Mathematics.**—Lectures and study under the direction of the Department of Mathematics.

Lectures, 2 hrs.....Professor Murray.

2. **Electrical Physics.**—Lectures and study under the direction of the Department of Physics.

Lectures, 2 hrs.

3. **Electrotechnics.**

Colloquium, 2 hrs.

The thesis will be in one of the following fields of investigation:

(a) Design, characteristics and testing of electrical machinery; investigation of special machinery; special problems of design.

(b) Properties of dielectrics and electric insulators; laboratory instruction and experimental investigation, with facilities for high voltage testing.

(c) Design, characteristics and testing of electrical engineering measuring instruments and devices. Facilities are available for precision measurements of most of the electrical quantities. Laboratory investigation of new types of measuring instruments and development of special devices.

(d) Investigation of devices for protection of electrical power systems; laboratory testing of relays and other devices; development of special types.

A workshop is available for the construction of special apparatus for research work.

DEPARTMENT OF ENGLISH

MEMBER OF THE FACULTY OF GRADUATE STUDIES

CYRUS MACMILLAN:—*Professor of English.*

ASSOCIATES OF THE FACULTY

GEORGE W. LATHAM:
HAROLD G. FILES: } *Associate Professors of English.*

A. S. NOAD:—*Assistant Professor of English.*

Courses for the Degree of Master of Arts

1. **Anglo-Saxon.**
Beowulf.
2 hrs.....Associate Professor Latham.

2. **The English and Scottish Popular Ballads,** with some attention to Canadian Folk-songs and Folk-tales and their relation to those of Europe.
2 hrs. .....Professor Macmillan.

3. **Chaucer.** Prerequisite:—14 (in the undergraduate course).
2 hrs.....Associate Professor Latham.

4. **The Drama in England from 1660 to 1920.**
2 hrs.; Mon., Wed., at 12.....Professor Macmillan

*5. **Spenser and Milton.**
3 hrs. in first term; Tu., Th., Sat., at 12.....
Associate Professor Latham

*6. **Shakespeare (Six Plays).**
3 hrs.; Mon., Wed., Fri., at 10.....Professor Macmillan

*9. **English Poetry of the Nineteenth Century.**
3 hrs.; Mon., Wed., Fri., at 11.....
Professor Macmillan and an Assistant

10. **English Novelists, from Defoe to George Eliot.**
3 hrs.; Tu., Th., Sat., at 10.....Assistant Professor Files

*11. **The English Drama, 1590-1642.**
3 hrs.; Mon., Wed., Fri., at 11.....
Professor Macmillan and Assistant Professor Files.

*12. **Anglo-Saxon; Anglo-Saxon Poetry and Introduction to English Philology.**
3 hrs., 2nd term; Mon., Wed., Fri., at 2.....
Associate Professor Latham.

*13. **The Technique of the Drama.**
Lectures and demonstrations in the Moyse Hall, Tu., at 10 a.m.....Professor Macmillan and Assistants.

*14. **Chaucer.**
3 hrs. in second term; Tu., Th., Sat., at 12.....
Associate Professor Latham.

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* Courses marked with an asterisk are undergraduate honour courses in the Faculty of Arts which may also be followed by graduate students who have not already taken them.

*16. **Comparative Literature.**
(The Influence of English Literature upon the Continent of Europe in the 18th and 19th Centuries.)
3 hrs.; 2nd term.....Assistant Professor Noad.

*17. **Comparative Literature.**
(The Literary Relations of France and England in the 16th and 17th Centuries.)
3 hrs.; 1st term; Tu., Th., Sat., at 9..Assistant Professor Noad.
Omitted in 1928-1929.

18. **Memoirs and Memoir Writers.**

22. **Mystical and Other Religious Literature in England during the Seventeenth and Eighteenth Centuries.**
Assistant Professor Files.

23. **Methods of Literary Criticism.**
2 hrs.....Assistant Professor Files.

Candidates for the degree of M.A., taking English as their only subject, must select four courses, of which two must be from Nos. 1 to 4 (inclusive) and 18 and 22, while No. 12, or its equivalent, is compulsory.

DEPARTMENT OF ENTOMOLOGY

(Macdonald College)

MEMBER OF THE FACULTY OF GRADUATE STUDIES

W. H. BRITTAIN:—*Professor of Entomology.*

ASSOCIATE OF THE FACULTY

E. M. DU PORTE:—*Assistant Professor of Entomology.*

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. **Taxonomy.**

Literature of entomology; how to make and use indices, catalogues, check-lists, bibliographies, etc.; zoological nomenclature; history of entomological systems; classification and the principles of classification.

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* Courses marked with an asterisk are undergraduate honour courses in the Faculty of Arts which may also be followed by graduate students who have not already taken them.

Each student shall bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.

Four laboratory hours a week supplemented with lectures and colloquia..... Dr. Du Porte.

2. Insect Morphology and Physiology.

A comparative study of insect morphology, development and phylogeny; the histology and physiology of organs; research on assigned topics.

One lecture, one colloquium, and four hours laboratory.

Dr. Du Porte.

***3. Advanced Economic Entomology.**

(a) *Principles of Insect Control.* First term. Two lectures.

(b) *The Economic Insect Groups of the World.* Organization and methods in economic entomology.

Two lectures, 1 term; 4 laboratory hours throughout year.

Dr. Brittain.

***4. Parasitology.**

With special reference to domestic animals.

Two lectures, 3 laboratory hours.....Dr. Du Porte.

5. Medical and Veterinary Entomology.

Two lectures, three laboratory hours for one term..Dr. Du Porte.

6. Seminar. 1½ hours.

Dr. Brittain and Dr. Du Porte.

Courses offered by the Department of Zoology may also be taken.

A candidate for the degree of Doctor of Philosophy may take two years at Macdonald College, and one at another University.

Candidates who have taken the equivalent of the undergraduate courses in Entomology (see Macdonald College announcement) may complete the work for the degree of Master of Science in one year, otherwise at least two years will be required.

DEPARTMENT OF GEOLOGY AND MINERALOGY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

J. Austen Bancroft:—*Professor of Geology* (absent on leave).

Richard P. D. Graham:—*Professor of Mineralogy.*

ASSOCIATE OF THE FACULTY

John J. O'Neill:—*Associate Professor of Geology.*

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* Given also to undergraduates.

Courses for the Degree of Master of Science

Students must take Courses 1 to 7, inclusive.

1. **General Geology.**—As in "Text Book of Geology," by Pirsson and Schuchert, vols. 1 and 2. To be read by students, with occasional colloquia.....Associate Professor O'Neill.

2. **Geological Colloquium.**—Papers on a great variety of geological topics are assigned to students for review and concise presentation as a preface to general discussion. Each year, this course must be taken by all graduate students in Geology. 1 hr. per week.

3. **Ore Deposits.**—As in "Mineral Deposits," by Lindgren; "Economic Aspects of Geology," by Leith; and "Principles of Economic Geology," by Emmons.
Colloquium, 4 hrs. per week....Associate Professor O'Neill.

4. **Optical Mineralogy.**—Methods of determining the various optical properties of minerals. Optical chapters in Miers' "Mineralogy" and Dana's "Text Book of Mineralogy"; Tutton's "Crystallography and Practical Crystal Measurement." 1 lecture and 1 laboratory period per week during the first term.....Professor Graham.

5. **Petrography.**—As in "Petrology for Students," by Harker, and "Essentials for the Microscopical Determination of Rock-forming Minerals and Rocks," by Johannsen. At least 9 hrs. laboratory per week.....Professors Graham and O'Neill.

6. **Palæontology.**—1 hr. lecture and 1 laboratory period per week.....Associate Professor Clark.

7. **Physiography.**—This course must be taken by those who have not taken it in Fourth Year Arts.
2 lectures per week.....Associate Professor O'Neill.
Students who have completed undergraduate courses in general geology, mineralogy, determinative mineralogy, petrography, Canadian geology, historical geology, and ore deposits and economic geology, or their equivalents, may expect to complete their M.Sc. course in one year; otherwise, two years are necessary for the Degree.

DEPARTMENT OF GERMANIC LANGUAGES AND LITERATURES

MEMBER OF THE FACULTY OF GRADUATE STUDIES

H. WALTER:—*Professor of Germanic Languages and Literatures.*

Courses for the Degree of Master of Arts

1. **Gœthe.**
   1 hr.....Professor Walter.
2. **Geschichte des deutschen Romans.**
   1 hr.....Professor Graff.
3. **Hebbels Dramen.**
   1 hr.....Professor Walter.
4. **Gothic and Introduction to Germanic Philology.**
   1 hr.....Professor Latham.
5. **Praktische Ubungen.**
   1 hr.....Professor Walter.

Candidates who have not taken German Philology and Mediæval Texts in their undergraduate course must take it as part of their M.A. course, except when German is taken as a minor.

DEPARTMENT OF HISTORY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

W. T. Waugh:—*Professor of History.*

Charles Edmund Fryer:—*Professor of History.*

ASSOCIATE OF THE FACULTY

E. R. Adair:—*Associate Professor of History.*

Courses for the Degree of Master of Arts

1. **Historical Method and Criticism.**
   Seminar, 1 hr.....Professors Waugh, Fryer and Adair.
2. **The Early History of the English Parliament.**
   Seminar, 1 hr.....Professor Waugh.

*3. **Joan of Arc and Her Times.**
   Seminar, 1 hr.....Professor Waugh.

*4. **The Reign of Charles I.**
   Seminar, 1 hr.....Professor Adair.

*5. **William Pitt and the Conquest of Canada.**
   Seminar, 1 hr.....Professor Adair.

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* These courses are also open to undergraduate students reading for honours in History in the Faculty of Arts.

*6. **Industrial Democracy in England.**
Seminar, 1 hr.....Professor Fryer.

7. **Problems in World Politics and the Balance of Power Since 1878.**
Seminar, 1 hr.....Professor Fryer.

*8. **A Selected Period in the History of Canada Since 1760.**
Seminar, 1 hr.....Professor Fryer.

9. **History of a Quebec Parish.**
Seminar, 1 hr.....Professor Adair.
Other courses may be arranged to suit students.

DEPARTMENT OF MATHEMATICS

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

DANIEL A. MURRAY:—*Professor of Applied Mathematics.*

CHARLES T. SULLIVAN:—*Professor of Mathematics.*

ASSOCIATES OF THE FACULTY

ALBERT H. S. GILLSON:—*Associate Professor of Mathematics.*

W. L. G. WILLIAMS:—*Associate Professor of Mathematics.*

Courses for the Degree of Master of Arts

*1. **Introduction to the Theory of Functions of a Real Variable.**
3 hrs.....Associate Professor Williams.

*2. **Introduction to the Theory of Functions of a Complex Variable.**
3 hrs.....Professor Sullivan.

3. **Theory of Numbers.**
Introduction to the classical theory of numbers; arithmetical properties of hypercomplex numbers; etc.
2 hrs.....Associate Professor Williams.

4. **The Differential Equations of Mathematical Physics.**
One hour a week of this course will be devoted to the theory of the potential. Particular attention will be paid in the remaining

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* Open also to undergraduates of the Fourth Year in the honour course.

part of the course to Leplace's equation and to the wave-equation, with applications to problems in elasticity, electro-magnetism and hydrodynamics.
2 hrs.....Associate Professor Gillson.

5. **Differential Geometry.**
2 hrs .....Professor Sullivan.

6. **Projective Geometry.**
2 hrs.....Assistant Professor Matthews.

7. **Differential Equations and Advanced Calculus.**
2 hrs.....Professor Murray.

8. **Theory of Generalized Relativity.**
2 hrs.....Associate Professor Gillson.

9. **Theory of Invariants.**
2 hrs.....Assistant Professor Tate.

10. **Theory of Algebraic Plane Curves.**
2 hrs.....Professor Sullivan.

DEPARTMENT OF MECHANICAL ENGINEERING

ASSOCIATES OF THE FACULTY OF GRADUATE STUDIES

CHARLES M. MCKERGOW:—*Professor of Mechanical Engineering.*

ARTHUR R. ROBERTS:—*Associate Professor of Mechanical Engineering.*

Courses for the Degree of Master of Science

1. **Engineering Thermodynamics.** Prerequisites, Courses 220 and 251 (see Announcement of the Faculty of Applied Science).
3 hrs. colloquia.....Professor McKergow.

2. **Machine Design.** Prerequisites, Courses 225 and 242 (see Announcement of the Faculty of Applied Science).
3 hrs. colloquia.....Professor Roberts.

Course 7 is intended specially for graduates in the Faculty of Applied Science who are proceeding to the M.Sc. degree in courses in Applied Science; *e.g.* in Electrical Engineering, or in Civil Engineering. It will be a minor among the courses taken by candidates for this M.Sc. degree, and is based necessarily on the mathematics taken in preparation for the B.Sc. degree in Applied Science.

During the session 1928-29 the courses to be offered are: *1, *2, 4, 7, and another of the above courses, if a sufficient number of qualified students present themselves.

DEPARTMENT OF METALLURGICAL ENGINEERING

MEMBER OF THE FACULTY OF GRADUATE STUDIES

ALFRED STANSFIELD:—*Professor of Metallurgy.*

Courses for the Degree of Master of Science

1. **General Advanced Metallurgy.** A series of advanced studies of the theory and practice of metallurgy, taken from the following list:—

Physical properties and allotropic changes of metals.
Constitution and properties of metallic alloys.
Constitution and properties of slags and mattes.
Chemical equilibria, thermo-chemistry and speed of chemical reactions in metallurgical practice.
Design and efficiency of fuel-fired and electrical furnaces.
Properties, cleaning and utilization of furnace gases.
Electrolysis as applied to the refining and recovery of metals.

Instruction is given by directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work.....Dr. Stansfield, Mr. Sproule and Mr. Roast.

2. The same as No. 1, but including a special study of one or more selected metals, or of some special branch of metallurgy such as electro-metallurgy or hydro-metallurgy. (Alternative with No. 1.) Dr. Stansfield.

3. The same as No. 1, but including a course of instruction and laboratory work on the properties of metals and refractory materials and the use of metallurgical testing instruments. (Alternative with No. 1.).....Dr. Stansfield and Mr. Sproule.

The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

4. **Advanced Metallurgy.** Fourth Year Applied Science, No. 272. 2 hrs. lectures.....Dr. Stansfield.

5. **Electro-Metallurgy and Laboratory.** Fourth Year Applied Science, No. 275. 2 hrs. lectures and 1 laboratory period in second term.....Dr. Stansfield.

6. **Metallurgical Analysis.** Fourth Year Applied Science, No. 279. 1 hr. lecture and 1 laboratory period in second term....Mr. Roast.

7. **Metallography and Laboratory.** Fourth Year Applied Science, Nos. 280 and 281. 1 hr. lecture and 1 laboratory period in first term.....Mr. Roast.

NOTE.—Graduates in Chemical Engineering in the Inorganic Option will be allowed to specialize in Metallurgy—including two summers' work and a year of metallurgical study in the Graduate Faculty—and if successful will be given the degree of M.Sc. in Chemistry.

DEPARTMENT OF MINING ENGINEERING

MEMBER OF THE FACULTY OF GRADUATE STUDIES

WILBERT G. MCBRIDE:—*Professor of Mining Engineering.*

ASSOCIATE OF THE FACULTY

JOHN W. BELL:—*Associate Professor of Mining Engineering.*

Courses for the Degree of Master of Science

A. *Undergraduate Course open to Graduate Students who have not already taken it as undergraduates.*

1. Mining Engineering. Course 297 in the Faculty of Applied Science (see Announcement of that Faculty). The whole of this course of three lectures per week for two terms, or selected portions of it (methods of mining), is suitable as part of the requirements for the M.Sc. degree for students who have not taken this course while undergraduates.....Professor McBride.

B. *Advanced courses open to Graduate Students only.*

2. Works Organization and Management. With especial reference to Mining and Ore Dressing establishments. One lecture per week for one term.....Professor McBride.

3. The Theory of Rock Crushing and the Determination of the Efficiency of Rock Crushing Appliances.
One lecture per week for one term.....Professor Bell.

4. Rock Crushing Laboratory. Advanced students who wish to supplement course No. 3 by additional laboratory work will be given one or two laboratory periods of two hours each per week for one term.....Professor Bell and Mr. Erlenborn.

5. The Settling of finely divided Minerals in Water. Theories of classification and settling, the effect of temperature and of various electrolytes, colloids and flocculents, the calculation of settling rates and the design of settling tanks. Two lectures and one laboratory period for one term.....Professor Bell.

6. Classification Laboratory. Advanced students who wish to supplement course No. 5 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

7. Filtration in Ore Dressing and Cyanidation. Theoretical and practical conditions governing the removal of finely divided and

semi-colloidal minerals from water and dilute solutions by means of mechanical filtration apparatus. One lecture and one laboratory period per week for one term.....Professor Bell and Mr. Erlenborn.

8. Filtration Laboratory. Advanced students who wish to supplement course No. 7 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

9. The Cyanidation of Gold and Silver Ores. Advanced studies of the theory and practice of cyanidation. One lecture per week for one term .....Professor Bell.

10. Cyanidation Laboratory. Advanced students who wish to supplement course No. 9 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

11. The Theory and Practice of Flotation. Advanced studies in flotation, surface tension, etc. Two lectures per week for one term. Professor Bell or Mr. Erlenborn.

12. Flotation Laboratory. Advanced students who wish to supplement course No. 11 will be given one or two laboratory periods per week for one term.....Professor Bell and Mr. Erlenborn.

NOTE.—The department reserves the right to substitute tutorial instruction in place of set lectures when the classes are small enough to warrant the change. It is also prepared to increase the amount of work in certain of the courses when desirable.

DEPARTMENT OF ORIENTAL LANGUAGES AND LITERATURE

MEMBER OF THE FACULTY OF GRADUATE STUDIES

C. A. BRODIE BROCKWELL:—*Professor of Hebrew and Semitic Languages, Law and History.*

ASSOCIATES OF THE FACULTY

ALEXANDER R. GORDON:—*Professor of Hebrew.*

GEORGE ABBOTT-SMITH:—*Assistant Professor of Jewish Hellenistic Literature.*

Courses for the Degree of Master of Arts

1. Special Texts: According to the Nature of the Thesis.
3 hrs.....Professor Gordon, Professor Abbott-Smith.

***2. Outlines of Hebrew History to Herod the Great.**
1 hr.....Professor Gordon.

*3. **Semitic Social Anthropology and Epigraphy.**
3 hrs.....Professor Brockwell.

*4. **Hellenistic Grammar, Syntax and Lexicography.**
1 hr.....Assistant Professor Abbott-Smith.

*5. **The Critical Use and Values of Hellenistic Documents.**
1 hr.....Assistant Professor Abbott-Smith.

PATHOLOGY AND BACTERIOLOGY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

HORST OERTEL:—*Strathcona Professor of Pathology.*

FRANCIS CHARLES HARRISON:—*Professor of Bacteriology.*

ASSOCIATES OF THE FACULTY

A. A. BRUÈRE:—*Assistant Professor of Bacteriology.*

THEO. R. WAUGH:—*Assistant Professor of Pathology.*

Courses for the Degrees of Master of Science and Doctor of Philosophy

A. *Pathology.*

*1. **The Historic, Philosophic and Scientific Foundations of Pathology.**
2 lectures and demonstrations.....Professor Oertel.

*2. **The Hæmatopoietic System; Technique, Methods, Physiology, and Pathology.**
(Open also to *advanced* undergraduates.)
1 lecture and demonstration.....Professor Waugh.

3. **Special Problems in Hæmatology.**
Seminar, twice weekly.....Professor Waugh

4. **Research Into Hæmatological Problems.**
....Professor Waugh.

5. **Practicum and Colloquium in Pathological Anatomy.**
1 colloquium weekly.....Professor Oertel.

*6. **Practical Diagnostic-Anatomic Exercises.**
1 exercise weekly.....Professor Oertel.

* These courses are also open to undergraduates.

7. **Research Into Problems of Pathology.**
....Professor Oertel.

B. *Bacteriology*

*1. **Systematic Bacteriology.**
1 lecture and 3 laboratory exercises, one semester....
Professor Harrison.

2. **Industrial Bacteriology.** A general survey of bacteria as related to the industries.
1 lecture and 6 laboratory exercises for the year; six colloquia .....Professor Harrison.

3. **Dairy Bacteriology.** A comprehensive survey of the bacteria of milk and its products.
1 lecture and 6 laboratory exercises for the year; six colloquia .....Professor Harrison.

*4. **Lectures and Systematic Laboratory Exercises in Bacteriology, including the Consideration of the Important Pathogenic Micro-organisms, and their Cultivation and Identification.**
2 lectures, 1st term.....Professor Bruère.

5. **Practicum and Colloquium on the Methods and Technique of Serological Blood Examinations.**
1 colloquium, 2nd term.....Professor Bruère.

6. **Bacteriological and Serological Methods for Isolation of Pathogenic Micro-organisms Applied to Diagnostic Purposes and to Specific Organs.**
Daily, 2nd term.....Professor Bruère.

7. **Research Into Problems of Immunity.**
Throughout the session.....Professor Bruère.

Candidates for the degree of M.Sc. must take course 1 and a selection of two or three of above courses 2 to 7.

Requirements for the Degree of Doctor of Philosophy

Candidates for the degree of Doctor of Philosophy, if they desire to devote their attention more particularly to pathology, will take the other courses in that subject, and if they wish to follow more especially the study of bacteriology, they will take courses 5 and 6. In either case additional courses will be provided, if necessary, to meet the instruction requirements.

Arrangements may be made by which candidates for either of these degrees may take a part of their work in the Department of Bacteriology at Macdonald College if they desire to do so.

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* These courses are also open to undergraduates.

DEPARTMENT OF PHARMACOLOGY

MEMBER OF THE FACULTY

RAYMOND L. STEHLE:—*Professor of Pharmacology.*

ASSOCIATE OF THE FACULTY

N. B. DREYER:—*Lecturer in Pharmacology.*

Candidates for the higher degrees must present evidence of suitable preparation in chemistry and physiology and must have completed the undergraduate course in Pharmacology.

Courses for the Degree of Master of Science

1. **Advanced Pharmacology.** Laboratory 90 hrs.; conference 30 hrs.
2. **Chemical Pharmacology.** Fifteen lectures on the chemistry of drugs, including discussions on the relations between chemical structure and pharmacological action.
3. **Bio-assay.** Laboratory 60 hrs.; conference 15 hrs.
4. **Colloquium.** 1 hr. weekly.

Courses for the Degree of Doctor of Philosophy

Any of the above courses not taken in the first year of graduate study must be taken together with other courses which will be arranged.

DEPARTMENT OF PHILOSOPHY

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

WILLIAM CALDWELL:—*Professor of Moral Philosophy.*

IRA A. MACKAY:—*Professor of Logic and Metaphysics.*

COURSES FOR THE DEGREE OF MASTER OF ARTS

*1. **The Critical Philosophy of Kant.**
Lectures, Readings and Papers.
3 hours.....Professor Caldwell or Professor Mackay

*These courses are also open to undergraduates.

2. **Ethical Seminar.**
Recent and Contemporary Ethical Theories.
3 hours.....Professor Caldwell.

3. **Philosophical Seminar.**
3 hours.....Professor Mackay.

DEPARTMENT OF PHYSICS

MEMBERS OF THE FACULTY OF GRADUATE STUDIES

A. Stewart Eve:—*Macdonald Professor of Physics and Director of the Physics Building.*

Louis V. King:—*Macdonald Professor of Physics.*

A. Norman Shaw:—*Professor of Physics.*

ASSOCIATES OF THE FACULTY

David A. Keys:—*Associate Professor of Physics.*

Etienne S. Bieler:—*Assistant Professor of Physics* (absent on leave).

J. Steward Foster:—*Assistant Professor of Physics.*

Courses for the Degrees of Master of Science and Doctor of Philosophy

*6a. **Electrical Measurements.**
2 hrs.; Wed., Fri., at 9; 2 hrs. lab.; Wed., 2-6.
Assistant Professor Bieler.
Text-books:—Terry's Advanced Practice in Electricity and Magnetism (McGraw-Hill); Starling's Electricity and Magnetism (Longmans).

*6b. **Light.** (Replaced by 8b in alternate sessions:†)
1 hr.; Mon., at 9 (also lab.).
Associate Professor Keys and Dr. A. V. Douglas.
Text-books:—Edser's Light (Macmillan); Wood's Physical Optics (Macmillan).

*7a. **Electro-magnetic Theory.**
1 hr.; Th., at 11.....Associate Professor Keys.
Text-book:—Pierce's Electrical Oscillations and Electric Waves (McGraw-Hill).

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* These are also given as undergraduate courses.
† Courses 6b and 8b will be given in alternate sessions as follows:—6b in '28-'29, '30-'31, etc., and 8b in '29-'30, '31-'32, etc.

*7b. **Mathematical Physics.**
2 hrs.; Tu., Sat., at 11.....Assistant Professor Foster.
Text-book:—Houston's Introduction to Mathematical Physics (Longmans).

*8a. **Molecular Physics.**
2 hrs.; Wed., Fri., at 9.....Professor Shaw.
Text-book:—Crowther's Ions, Electrons and Ionizing Radiations (E. Arnold).

*8b. **Theory of Heat.** (Replaced by 6b in alternate sessions.†)
1 hr.; Mon., at 9 (also 3 hrs. lab.‡).....
Professor Shaw and Dr. A. V. Douglas.
Text-book:—Preston's Theory of Heat (Macmillan).

9. **Radioactivity.**
2 hrs.; 2nd term (also 3 hrs. lab.)..Assistant Professor Bieler.
Text-book:—Rutherford's Radioactive Transformations. (C.U.P.).

10. **Vector Analysis.**
2 hrs.; 1st term; Wed. and Thur., at 11.....Professor Eve.
Text-book:—Coffin's Vector Analysis (Wiley).

11. **Advanced Statics, Dynamics, Hydronamics and Sound.**
2 hrs. .....Professor King.
Text-books:—Lamb's Higher Mechanics (C.U.P.), Bassett's Hydrodynamics and Sound (Deighton Bell).

12. **Kinetic Theory of Matter.**
2 hrs. .....Professor King.
Text-book:—Jean's Dynamical Theory of Gases (C.U.P.).

13. **(a) Quantum Theory.**
1 hr.; Thurs., at 12.....Professor Eve.
Text-book:—Sommerfeld's Atomic Structure (Methuen).
(b) Relativity.
1 hr.; 2nd term.....Associate Professor Gillson.

14. **Advanced Electricity and Magnetism.**
2 hrs. .....Professor King.
Text-book:—Jean's Electricity and Magnetism (C.U.P.).

15. **Laboratory Practice and Physical Manipulation.**
A course of practical instruction on the use of tools (including the lathe), glass-blowing, photography and the construction

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† Courses 6b and 8b will be given in alternate sessions as follows:—6b in '28-'29, '30-'31, etc., and 8b in '29-'30, '31-'32, etc.

‡ The Department of Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

* These courses are also open to undergraduates.

of simple apparatus. This course is designed as an aid and introduction to original research.
1 hr. (also 2 hrs. lab.).
Associate Professor D. Keys, Mr. H. T. Pye.

16. **Thermodynamics.**
1 hr. .....Professor Shaw.
(Alternate sessions, 1928-29, 1930-31, etc.).

17. **Electron Theory.**
1 hr. .....Professor King.
Text-books:—Richardson's Electron, Theory of Matter. (C.U.P.); Lorentz, Theory of Electrons (Teubner).

18. **Spherical Astronomy and Combination of Observations.**
3 hrs. .....Professor Gillson.
Text-books:—Ball's Spherical Astronomy, Newcomb's Spherical Astronomy. (Math. 3 and 4, prerequisite).

19. **Astrophysics.**
3 hrs.....Dr. A. V. Douglas.
(Math. 4 and 6, and Physics 5b prerequisite).

Students who have received instruction in Astronomy may apply to proceed to the Dominion Observatory at Ottawa for work in the summer months.

A suitable selection of the above courses may be made when Physics is taken as a minor subject. A general paper on elementary Physics is also given when Physics is a minor subject.

As a major course, M.Sc. or Ph.D., a selection will be made from courses 9 to 19.

Graduate students will also take part in the Physical Society, the weekly Journal Club, and the weekly Colloquium.

DEPARTMENT OF PHYSIOLOGY

MEMBER OF THE FACULTY OF GRADUATE STUDIES

JOHN TAIT:—*Professor of Physiology and Director of Experimental Medicine.*

B. P. BABKIN:—*Research Professor of Physiology.*

Courses for the Degree of Master of Science

1. **Senior Laboratory**—chiefly mammalian experimental work. 3 hours.

2. Advanced Physiology.

In this course certain branches of the subject will be selected for more detailed treatment because of their special medical or scientific interest.

2 hours lectures for one term.....Professor Tait and Staff.

3. Structure and Function.

This course includes a review of modern work in biology in which structure, whether of the developing or of the adult animal, has been investigated by experimental means. The aim is to show the scope and place of physiology and of physiological method in relation to such problems. A special study will be made of structural adaptations to physically new environment.

2 hours lectures for one term.....Professor Tait.

4. Blood and Circulation.

This course, designed in part for clinicians, will include lectures, laboratory work and demonstrations. The following questions will receive consideration:—Life history of the corpuscle, hæmoglobinæometry, hæmacytometry, hæmolysis, blood transfusion, congulation and arrest of hæmorrhage, cytology of the cerebro-spinal fluid, methods of recording pulse and blood pressure, electrocardiography and experiments on the excised heart and vessels.

1 hour lecture and 30 hours laboratory.

Drs. Giblin, Emmons and Burke.

5. Physiological Colloquium.

This meets weekly and is limited to those engaged in research. Colloquium, 2 hours.

6. Tutorial Class.

Colloquium, ½-hour.

7. Clinics in Experimental Medicine.

These clinics, which are held in conjunction with members of the McGill hospital staff, have the object not of discussing diagnosis or treatment but of opening up research possibilities.

2 hours for one term.

Courses for the Degree of Doctor of Philosophy

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

The advanced courses in physiology have been designed with two things in view: (1) to provide higher training for graduates who look

forward to an exclusively academic career either in physiology or in some cognate branch of biological or medical science; (2) to offer increased facilities of study to the younger clinicians of the school. The work is arranged to meet the individual needs of each student.

DEPARTMENT OF PSYCHOLOGY

MEMBER OF THE FACULTY OF GRADUATE STUDIES

WILLIAM D. TAIT:—*Professor of Psychology.*

ASSOCIATE OF THE FACULTY

CHESTER E. KELLOGG:—*Associate Professor of Psychology.*

Graduate Courses

*1. **Psychological Laboratory.**
Experimental Investigations in Human Psychology.
6 hrs.....Professor Tait and Associate Professor Kellogg.

*2. **Seminar in Psychology.**
Subject: Intellect and Character.
3 hrs. .....Professor Tait.

*3. **Systematic Psychology.**
3 hrs. Given in 1929-30.....Associate Professor Kellogg.

*4. **Abnormal Psychology.**
3 hrs.....Associate Professor J. W. Bridges.

*5. **Advanced Psychology.**
3 hrs. .....Professor Tait.

Course Leading to the Degree of Ph.D.

DR. W. D. TAIT:—*Head of the Department of Psychology.*

1. Admission to this course will be limited to students who have taken honours in Psychology for their B.A. degree or its equivalent. The term "equivalent" will be used in a restricted sense, and no student coming from any other university will be admitted to study for this advanced degree unless his training has been of a kind to amply equip him to undertake it.

NOTE.—For other Graduate Courses see Faculty of Arts Announcement.

* Open also to Honour students in Fourth Year.

2. The first year of the course will consist of 12 hours per week at least of regular work, including lecture courses, seminar and research work, and, with a satisfactory thesis this year, will qualify for the Master's degree as at present.

3. The second year will consist of an equal number of hours of work but more time will be devoted to research; for example, one seminar, one lecture course, and the remainder of the time to research, or two seminars and the remainder of the time to research would be required this year.

4. In the third year at least 8 hours would be given to research and the remainder to seminars and lectures.

5. In addition to the regular work of the Department, the student would have to prepare the usual standard Doctor's thesis based upon personal investigation and research.

6. All students would be required to have a knowledge of advanced statistical methods such as correlation, partial correlation, regression equations and methods of testing the reliability of psychological measurements.

7. Candidates would also be required to possess an adequate knowledge of the main principles of Physics, Chemistry and Physiology, so far as these subjects are cognate to scientific Psychology.

8. A certain amount of ability in shopwork, enough at least to show that the candidate is capable of designing and constructing simple apparatus, would also be required.

DEPARTMENT OF ROMANCE LANGUAGES

MEMBER OF THE FACULTY OF GRADUATE STUDIES

R. DU ROURE:—*Professor of French.*

ASSOCIATES OF THE FACULTY

R. MESSAC:—*Assistant Professor of French.*

LUCIE TOUREN FURNESS:—*Assistant Professor of French.*

Courses for the Degree of Master of Arts

1. **Comparative Literature** (Department of English, Course 16).
   3 hrs.....Assistant Professor Noad.
2. **Methodologie.**
   1 hr.....Assistant Professor Messac.

3. Etude sur le théâtre contemporain.
2 hrs.....Assistant Professor Furness.

4. Exercices pratique (Colloquia).
1 hr.....

***5. Histoire du roman en France.**
3 hrs. (Given in 1928-29.).....Professor du Roure.

***6. Balzac.**
2 hrs. (Given in 1928-29.).....Assistant Professor Messac.

***7. Histoire de la poésie lyrique en France.**
3 hrs. (Given in 1929-30.).....Professor du Roure.

Candidates for the Master's degree in French only will take courses 1 to 4 inclusive, and also one of 5, 6, 7.

Those taking French as a major will omit 1 and either 2 or 3.

Those taking French as a minor will take 4 and one of the one-hour courses.

The M.A. thesis should be written in French.

THE SUMMER SESSSION COURSES

A student taking one session of the advanced course in the French Summer School will be exempted from the corresponding number of hours for the M.A. degree.

A student taking two sessions of the advanced course will be exempted from half of the regular session.

A student taking four sessions of the French Summer School advanced course will be exempted from attendance during the regular session and will receive the M.A. degree on presenting an acceptable thesis in French under the direction of the Department.

DEPARTMENT OF SOCIOLOGY

MEMBER OF THE FACULTY OF GRADUATE STUDIES

CARL ADDINGTON DAWSON:—*Associate Professor of Sociology.*

ASSOCIATE OF THE FACULTY

EVERETT CHERRINGTON HUGHES:—*Assistant Professor of Sociology.*

Courses for the Degree of Master of Arts

***1. The Community.**
3 hrs.....Associate Professor Dawson.

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*These are also Honour courses in the Faculty of Arts.

*2. **Social Origins.**
3 hrs., 1st term.....Assistant Professor Hughes.

*3. **Social Movements.**
3 hrs., 2nd term.....Assistant Professor Hughes.

4. **Graduate Seminar: Research Problems, Theory and Methods.**
3 hrs.....Associate Professor Dawson.

5. **Personality: A Study of Social Conditioning.**
3 hrs., 1st term.....Associate Professor Dawson.

*6. **Immigration.**
3 hrs., 2nd term.....Associate Professor Dawson.

DEPARTMENT OF THEOLOGICAL STUDIES

ASSOCIATES OF THE FACULTY OF GRADUATE STUDIES

GEORGE ABBOTT-SMITH:—*Assistant Professor of Jewish Hellenistic Literature, McGill University.*

O. W. HOWARD:—*Professor of Church History, Co-operating Theological Colleges.*

WILLIAM A. GIFFORD:—*Professor of Church History, Co-operating Theological Colleges.*

ALEX. R. GORDON:—*Professor of Hebrew, McGill University.*

JAMES SMYTH:—*Professor of New Testament Language and Literature, Co-operating Theological Colleges.*

R. E. WELSH:—*Professor of History and Philosophy of Religion, Co-operating Theological Colleges.*

A selection from the following courses may be taken as fulfilling the requirements of a Minor Subject for the degree of Master of Arts.

OLD TESTAMENT

1. **Introduction—Canon, Text and Introduction to the Historical Books.** Exegesis—Selections from the Historical Books or Prophetical Books.
3 hrs. a week throughout the year.....Professor Gordon.

NEW TESTAMENT

2. **Introduction.** Course in three parts.
(1) History of New Testament times.
(2) Canon and Text.

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* Honour courses in the Faculty of Arts.

(3) The Language of the New Testament.
3 hrs. a week throughout the year....Professor Abbott-Smith.

3. **Introduction to the Acts and Pauline Epistles; and Exegesis (Greek) of the Epistles to the Galatians and Ephesians.**
3 hrs. a week throughout the year.....Principal Smyth.

4. **Introduction to the Catholic Epistles; and Exegesis (Greek) of the Epistles of St. James, First St. Peter, and First St. John.**
3 hrs. a week throughout the year.....Professor Abbott-Smith.

5. **The Rise and Progress of Protestant Christianity in Europe until the close of the 16th Century.**
Two lectures a week with weekly colloquium....Prof. Gifford

6. **History of the Christian Church in the First Six Centuries.**
Two lectures a week with a weekly colloquium...Prof. Howard.

7. **History and Comparative Study of Religions — chiefly Hindu, Buddhist, Zoroastrian and Mohammedan (Islam).**
2 hrs. a week for two terms.....Professor Welsh.

DEPARTMENT OF ZOOLOGY

MEMBER OF THE FACULTY OF GRADUATE STUDIES

ARTHUR WILLEY:—*Professor of Zoology.*

Courses for the Degree of Master of Science

*1. **Zoology of Invertebrata.**

*2. **Colloquium.**

*3. **Zoology of Vertebrata.**

*4. **Comparative Embryology.**

5. **Parasitology.**

6. **Experimental Zoology.**

7. **Ecology.**

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* These are also Honour courses in the Faculty of Arts.

DEPARTMENT OF PHARMACY

GENERAL ANNOUNCEMENT

The Montreal College of Pharmacy, organized as a teaching body in 1867, for fifty years successfully carried on the work of instructing pharmaceutical students, and for many years it was the only institution in the Province of Quebec offering such instruction.

During the summer of 1916 this College was taken over by McGill University, and a Department of Pharmacy was established in connection with the Faculty of Medicine.

Special instruction on all subjects required by the future pharmaceutical chemist is given in the class room and laboratories of the University, the students of Pharmacy having access to its splendid equipment.

The work of the Department embraces courses in Botany, Physics, Chemistry and Practical Chemistry, Theoretical and Practical Pharmacy, Dispensing, Materia Medica and Toxicology.

The eleventh session of this Department will be opened on Monday, October 1st, 1928.

The course in Pharmacy covers a period of three years, the work being distributed as follows:—

First Year

Physics, Junior Chemistry and Junior Practical Pharmacy.

Second Year

Materia Medica, Junior Theoretical Pharmacy, Senior Chemistry and Botany.

Third Year

Materia Medica and Therapeutics, Analytical Chemistry and Senior Practical Pharmacy.

ENTRANCE REQUIREMENTS

For entrance into the Department of Pharmacy the University accepts the preliminary examination of the Pharmaceutical Association of the Province of Quebec in default of the B.A. degree or Arts matriculation (B.A. Course), particulars of which will be found in the Arts Announcement.

The regulations regarding the Preliminary Examination of the Pharmaceutical Association of the Province of Quebec are as follows:

A diploma of Bachelor of Arts, Science or Letters from a Canadian or British University, is accepted in lieu of the preliminary examination. In this case the candidate must register his application with the Secretary of the Association, and produce his diploma, together with personal proof of his identity.

The candidate for the study of Pharmacy must give satisfactory certificates of good morals, as well as identification and a recent photograph duly attested. He must be a British subject of the male sex and not less than seventeen years of age. He is also required to pay the fee in advance.

The examination which the candidate is required to undergo embraces the following subjects:

GROUP I. LETTERS:—

1. Mother tongue (English or French):—Dictation, grammar, syntax, analysis, composition. English candidates will also be required to have a critical knowledge of Shakespeare's "Macbeth."

LITERATURE:—The study of the principles of *Belles Lettres* and *Rhetoric;* notions of the different classes of literature; a knowledge of the principal authors who have especially exemplified these different classes in Greek, Roman, French, and English literature.

2. Auxiliary language (English or French):—Translation in both languages (books recommended "Telemaque" and "The Vicar of Wakefield" by Oliver Goldsmith), grammar and syntax. (French for English candidates and English for French candidates).

3. Latin.—Virgil, book VI; Cicero, "Pro Milone." A *sound* knowledge of grammar, and syntax as exemplified in the texts chosen.

4. History.—French, English, and United States.

5. Geography.—Notions on universal geography—a special knowledge of the geography of France, England and North America.

GROUP II.—SCIENCES:—

1. Arithmetic:

(a) Ordinary and decimal fractions, single and compound proportion, interest, percentage and square root; problems.

(b) Units of measure in use in Canada—"Linear, surface and volume"; metric system.

(c) Mensuration:—Computation of areas and volumes of simple geometrical figures; problems.

2. Algebra:—Fractions and equations of the first degree of one or more unknown.
Geometry:—The first four books of Euclid; proofs.

3. Physics and Chemistry.
Physics: Elementary notion on mechanics, weight, hydrostatics, pneumatics, capillarity, osmosis, optics and heat.
Chemistry:—General knowledge, definitions, the elements, principal laws of chemical reactions, properties of the principal metalloids and their compounds.

For admission the candidate must obtain at least the following percentage in the different subjects:—

Mother tongue and arithmetic, 60 per cent.; other subjects, 50 per cent.; and on the total, 60 per cent.

The candidate who fails in one subject only, of the above groups, either of letters or of sciences, may present himself for examination in that subject at any one of the four subsequent examinations.

The candidate may try for science or letters at different examinations, separately, or for both of these two groups at the one examination. Clear and legible writing is required.

Fee, $20.00 or $10.00 for each group.

The preliminary examinations for admission are held in Montreal and Quebec, the first Thursday of January and July of each year.

The registration of candidates for the examination must be made at the office of the Registrar of the Association at least ten days before the date set for the examinations. A blank register form can be obtained from the Registrar, and must be signed by the candidate.

The major and minor examinations are held at Montreal in April, and at Quebec in the Autumn.

REGISTRATION

Students in Pharmacy are required to register at the office of the University Registrar between September 24th and September 29th, both dates inclusive. Students entering on or after Monday, October 1st, will not be allowed to register until they have paid a late registration fee of $5.00 during the first week of the session, and $10.00 during the second. This will not be refunded except for satisfactory reasons and by special authorization of the Faculty.

EXAMINATIONS

Examinations in each subject are held at the close of the course. Students who pass in all subjects of the curriculum, as required by the Pharmaceutical Association of the Province of Quebec, will receive the University Diploma of Pharmacy. The pass requirements are 50 per cent in each subject and 60 per cent on the whole. Seventy-five per cent is required for honours. The examination requirements of the Pharmaceutical Association of the Province of Quebec for license to practise Pharmacy in the Province are stated on page 498.

FEES

All students must register with the University Registrar before paying their fees.

The fees for separate courses will be as follows:—

Registration fee	$ 5.00
Fee for Athletics and Athletic Grounds	*3.00
Course in Junior Chemistry and Physics	50.00
Course in Senior Chemistry	50.00
Course in Junior Materia Medica and Pharmacy	50.00
Course in Senior Materia Medica and Pharmacy	50.00
Course in Practical Pharmacy (Junior)	50.00
Course in Practical Pharmacy (Senior)	50.00
Course in Analytical Chemistry	50.00
Course in Botany	25.00
Diploma fee	15.00
Fee for Supplemental Examination, each subject	5.00

Certain fees are payable to the Pharmaceutical Association of the Province of Quebec for registration, examinations, and for the licentiate in pharmacy. (See page 500.)

MEDAL

A medal will be awarded to the graduate who obtains the highest total percentage over 80 per cent.

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* Students in Pharmacy may, if they so desire, secure the privilege of the skating rinks and tennis courts during the Session and admission to the home games under the control of the Athletic Board by the payment of an additional amount of $7.00.

TEXT-BOOKS RECOMMENDED

PHARMACY AND PRESCRIPTIONS:—Remington's Pharmacy, Bennett's Medical and Pharmaceutical Latin, Scoville's Art of Compounding, Art of Dispensing, Lucas' Practical Pharmacy.

CHEMISTRY:—Junior and Senior Chemistry.
Reference Book:—Sadtler and Coblentz, Pharmaceutical and Medical Chemistry.

PHYSICS:—Balfour Stewart's Elementary Physics, Ganot's Physics, Peck's Ganot's Physics.

BOTANY:—Gray-Robinson Manual, Kraemer's Applied and Economic Botany.

MATERIA MEDICA:—British Pharmacopœia, United States Dispensatory, Squire's Companion to the British Pharmacopœia, Royal's Materia Medica, Sayre's Organic Materia Medica and Pharmacognosy, Heebner's Synopsis.

TOXICOLOGY:—H. Trumper.

COURSES OF LECTURES

CHEMISTRY

Two courses will be required for the Diploma in Pharmacy, namely the junior and senior.

Junior Chemistry.—This includes elementary physical science and a university course on the general principles of the science of chemistry. A course in elementary physics will be taken with the students in the School of Commerce and will consist of a series of twenty-five lectures on the principles of physics and their application. The course is non-technical and is intended as an introduction and supplementary to the course in general chemistry. The course in general chemistry will consist of three lectures per week, given for the students in Arts and pre-medicals, on Monday, Tuesday and Thursday, at two o'clock. In addition to these lectures, there will be two laboratory periods each week of two hours, immediately following the lectures on Monday and Thursday. This course in general chemistry is intended to give a thorough grounding in the fundamental principles governing chemical action and the formation of chemical compounds, organic as well as inorganic.

Senior Chemistry.—The senior course in chemistry will be a short course of laboratory work on the identification and separation of organic and inorganic compounds of special importance in Pharmacy, and will include elementary toxicology, the assay of crude drugs, volumetric analysis, analysis of urine, the use of spectroscope, etc.

PRACTICAL PHARMACY

Junior.—This course will embrace (1) the preparation of a number of typical examples drawn from the official dilute acids, waters, liquors, plasters, extracts, fluid extracts, mixtures, liniments, oleates, syrups, ointments, etc. (2) General principles to be observed, simple and compound powders, mixtures, emulsions, their nature and preparation; pills and pill coating, gargles, lotions, liniments, suppositories, plasters, ointments, cachets, capsules, tablets and tablet triturates, lozenges and pastilles, lamellae, incompatibility, Pharmacy law.

Senior.—Practical Pharmacy in all its branches will be thoroughly dealt with. The course will include the following subjects:—Clarification, crystallization, decantation, dialysis, distillation, drug grinding, extraction, filtration, heat, metrology, percolation, precipitation, solution, specific gravity, specific volume and vaporization.

In conjunction with the foregoing, the class will practise the modus operandi for the manufacture of different preparations of the B. P., and others, including chemical solutions, elixirs, spirits, plasters, emulsions, ointments, granular effervescent salts, crystal and scale salts of iron, resins, oleo resins, etc.

Particular attention will be given to pharmaceutical assaying, such as opium, ipecac, belladonna, cinchona, nux vomica.

MATERIA MEDICA AND THEORETICAL PHARMACY

Junior.—This will include instruction in pharmaceutical jurisprudence, poison schedules, weights and measures; classification of the official organic drugs, including leaves, flowers, fruits, seeds, herbs, barks, gums, resins, etc., with the geographical source, parts used and official preparation of each; posology; theoretical pharmacy (embracing the theories of manufacture of the simple preparations of the B. P., such as medicated waters, syrups, tinctures, compounds, powders, pill masses, etc.); dispensing.

Senior.—Complete classification of all official organic and inorganic drugs, giving, in the former, the mode of collection and preservation, geographical and botanical sources and parts used—and in both instances the constituents and impurities, also the medicinal properties of each, with their preparations (animal drugs, such as pepsin, pancreatin, thyroids, etc., will be dealt with in a similar manner); posology; pharmacognosy; toxicology; theoretical pharmacy (embracing the theories of manufacture of the more complex Galenical official preparations); adulterants, impurities and the methods of detection.

BOTANY

General Botany.—General external morphology of the higher plants (higher cryptogams and phanerogams); anatomy and histology, the latter treated with more especial reference to methods of drug identification by means of the microscope.

General Physiology.—Elementary plant physiology, treated briefly.

Special Botany.—Structure of those plants below the pteridophytes of use or interest to the pharmacist, treated briefly; special morphology of pteridophytes and phanerogams, and their classification. Attention will more especially be given to those families (about 30) of plants chiefly represented in materia medica.

succeed their license will be retained until they have attained the age of twenty-one.

FEES FOR THE EXAMINATIONS

The fees to be paid by candidates, besides the registration fee, before they are admitted to the examination, are as follows:—Preliminary examination, $20.00, or $10.00 for each group; Assistant in Pharmacy, $15.00, and Pharmacist, $25.00. These fees must be paid in advance to the Registrar of the Association.

Any person having registered his name for an examination and not attending will lose the fee paid.

In addition to the above, a sum of $40.00 is required for the Diploma of Assistant Pharmacist, and $75.00 for the diploma of Licentiate in Pharmacy.

SCHOOL OF PHYSICAL EDUCATION

GENERAL INFORMATION

History and Aims.

The McGill School of Physical Education, which was established in 1912, has grown from a short summer course to a full two years' course and is now officially recognized by, and is an integral part of, McGill University.

It is the only School of Physical Education in Canada with a full two years' course connected with a University, and it has, since its inception, been fulfilling its purpose to provide Canada with a trainng centre for teachers of physical education, with marked success.

The modern conception of education is one which includes the individual as a unit and which strives to link all subjects in an organic whole. The Physical Education of to-day contributes to general complete education by means of motor activities which develop desirable standards of conduct, wholesome attitudes, sound habits of thinking, and efficiency of the human machine

The Field.

The field for trained teachers in physical education is rapidly widening in scope, to include such organizations as the following:— Public and Private Schools; High Schools; Colleges; Y.M.C.A.'s; Y.W.C.A.'s; Church Clubs; Playgrounds; Recreation Centres; Welfare and Social Clubs; Settlements; Industrial Organizations; Boy Scouts; Girl Guides; Summer Camps, etc.

Qualifications.

Scholastic: Matriculation requirements.

Motor Training: A native motor ability above the average, a rhythmic sense, and previous training in motor activities are essential.

Personal: The programme of physical education places a rare opportunity in the hands of the instructor, and thus it necessitates a forceful personality, guided by high ideals and aspirations, an understanding of people, and an ability to organize and control group activities.

Courses Offered.

A two-year course, from September to May, inclusive, is given in the theory and practice of physical education. This course is required for the Diploma of the School, and includes an analysis of the underlying principles of general education, educational psychology, the physical organism as a functioning unit, and a study of the possible

contribution of physical education to the problems of modern civilization. Opportunity for practice teaching under staff supervision is provided before graduation.

Partial students may be admitted for the study of special subjects. Special arrangements will be made for admission to the course on Playground Problems.

Facilities.

The work is carried on in the University buildings, the laboratories and museums being at the disposal of the students.

The University Library is available for use by the students, as are the University Hockey Rinks, Tennis Courts and the Percival Molson Memorial Stadium.

A special library of selected works and the leading magazines on physical education is available for use by the students.

Through the kindness of the Protestant Board of School Commissioners, the Day Nursery, the University Settlement, and the Hebrew Orphans' Home, exceptional facilities are afforded for practice teaching and observation

Practical demonstrations are carried on in the Out-Patient Department of the Montreal General Hospital.

Hostel.

A residence in charge of a resident tutor, at 3466 University Street, in the immediate vicinity of the campus, is conducted by the University and is available for students, provided application is made at an early date. Priority will be given to students without conditions. Printed regulations will be supplied to intending students.

Room rent $200.00 for the session; board in the Royal Victoria College (adjacent) $320.00 for the session. (Inclusive charge $520.00.) Charges for rent and board are paid in two instalments (October and February). Rooms are available from the day before the last day of registration (September 12th,), until the day after Convocation, for students of the Second Year and until the Saturday before Convocation (May 25th), for students of the First Year. The board charges cover the same period. Most of the rooms are cubicles and *no room is assigned for a shorter period than the University session, September to May.* A deposit of $10.00 is required when a room is reserved and is deducted from the charges for the first term.

Students whose homes are not in Montreal are required to live in the Hostel unless they submit their plans for residence in writing to the Director, and obtain his written approval.

Costume for Women Students.

The regulation costumes of the School must be worn, and students will not be permitted to wear other than the regulation garments. Measurement blanks will be furnished upon registration and students will be advised where the costumes can be secured, the approximate cost of tunic, gown, dancing dress and sweater being $50.00. A list of articles required, including clothes and books, with approximate cost, will be sent to students on application.

Student Organization.

All undergraduates are members of the McGill Women Students' Society (the official Undergraduate Society for Women).

An Undergraduate Association is also organized by the School of Physical Education, together with an Athletic Association which is a branch of the McGill Women Students' Society.

Voluntary Cadet Corps.

The 1st Montreal Cadet Corps is operated under the auspices of the School for the training of Girl Guide Officers.

Alumnae Association.

There is a very active association of the graduates of the School which meets regularly for mutual benefit. It is the endeavour of the School to keep closely in touch with its graduates, to locate them in positions for which they are best suited, to advise upon particular problems, and to furnish them from time to time with new ideals and inspiration for the profession in which they are engaged.

ENTRANCE REQUIREMENTS

1. Students are required to have passed the Matriculation Examination, as follows:—

1. **English** (two papers).
2. **History** (one paper).
3. **Elementary Mathematics** [**Algebra** (one paper) and **Geometry** (one paper)].
4. One of the following:—
   Physics, Chemistry, Botany, Zoology, Physiography* (one paper).
5. One of the following:—
   Latin, French, Greek, German, Spanish (two papers).

For requirements in each subject and other information regarding the examination, see the Arts Announcement.

A candidate who has qualified for admission to the Faculty of Arts will also be accepted for the School of Physical Education.

Students holding the Degree of B.A. or B.Sc. will be eligible for advanced standing. A complete statement of the courses covered, together with the practical experience of the student, must accompany every such application

Health Examination.

In order to safeguard the health of the student, every candidate on entering the school will be required to pass a satisfactory health examination before proceeding with the course. In order to be sure of the applicant's fitness to undertake the course, students are required to submit a medical certificate before registration. (See application form.)

Vaccination.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the authorities.

Health.

Provision is made by the University for the care of the health of undergraduate students during the session. Hospital accommodation is

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* This subject will not be accepted after 1929.

provided for seven days only, when requisitioned for by the Department. The University will not be responsible for any accidents occurring during the course. A leaflet concerning this service and the general work of the Department will be distributed at the opening of the session.

Admission.

Only women students are admitted to the regular courses in the School. They will not be admitted if they are less than eighteen (18) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is advisable and applicants must have had some practical experience in physical work before registration. Registration for the Session 1928-29 is limited to fifty (50) students and priority will be given to applicants who do not have conditions.

Two references, one from a former teacher, must be submitted with the application form. Neither reference should be from a relative.

Partial students, both men and women, will be admitted to special courses at the discretion of the Committee, and the work done will count toward the Diploma of the School.

FEES AND REGISTRATION

I. FEES

Sessional fee $150.00

By instalments:

First instalment, if paid before or on October 12th..... 77.00
Second instalment, if paid before or on February 1st..... 77.00

NOTE.—The deposit fee of $10.00 for Hostel accommodation made at the time of acceptance of application will be deducted from the charges for the first term.

Students are also required to pay a fee of $2.50 which entitles them to membership in the McGill Women's Students' Society and subsidiary societies, and $1.50 for the McGill Daily.

In addition there will be a fee of $6.00 for athletics and athletic grounds, for the skating rinks and tennis courts during the Session and for admission to the home games under the control of the Athletic Board.

Fees for Partial Students: $4.00 for library, $3.00 for athletics and athletic grounds and a fee at the rate of $7.00 for an hour a week of instruction during the academic year, but the maximum fee shall in no case exceed the full undergraduate fee.

Partial students may, if they so desire, secure the privilege of the skating rinks and tennis courts during the Session and admission to the home games under the control of the Athletic Board by the payment of an additional amount of $3.00.

Fees for Supplemental Examinations.

Supplemental examination in any subject..... $ 5.00
Special supplemental examination in any subject..... 10.00

Caution Money. Every student is required to deposit with the Bursar the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session.

II. REGISTRATION

Students (both old and new) will register between September 10th and September 13th, and the opening lecture will be given on Thursday, September 13th.

A fine of $5.00 for the first week and of $10.00 for the second week is exacted for late registration.

Application forms should be returned not later than September 10th, 1928.

EXAMINATIONS AND PRIZES

Diplomas.

Examinations will be conducted in all subjects and diplomas are granted to successful students at the end of the session. Strathcona Certificates issued through the Strathcona Trust are granted to students at the end of the First Year.

50 per cent is required for a pass, 60 per cent for second class, 75 per cent for first class; but at least 60 per cent must be made on teaching and in the major practical subjects.

The Educational Diploma is recognized by the Protestant Committee of the Department of Education, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying for the salary of Specialist in the Public Schools.

Students failing in their sessional examinations may, at the discretion of the Committee, take supplemental or special examinations.

All students of the Second Year are required to do a certain amount of practice teaching and officiating. Credit is given for this work.

Prizes.

1. JUNIOR YEAR PRIZE.—The School offers a prize to the student of the Junior Year who attains the highest general proficiency in the sessional examinations.

2. LIEUTENANT GOVERNOR'S BRONZE MEDAL.—This medal is awarded to the student of the Junior Year who secures the highest standing in Practical Work.

3. SENIOR YEAR GOLD MEDAL.—The School offers a prize of a gold medal to the student of the graduating year who attains the highest general proficiency throughout the course.

4 A Cup presented by the Class of 1916 is held for one year by the student of the Senior Year gaining the highest standing in practical work.

5. A teaching shield, presented by the class of 1925, is awarded to the student attaining highest standing in practice teaching throughout the course and is held for one year by the student.

6. LIEUTENANT GOVERNOR'S SILVER MEDAL.—This medal is awarded to the student of the Senior Year who secures the highest standing in dancing.

NOTE.—No student shall be entitled to more than one prize in any one year.

Regulations.

1. All students enter the School on an indeterminate probation. At the end of the first term, students who are considered unsuitable for the profession will be advised to discontinue. $77.00 of the fees paid at the beginning of the course will not in this case be returned.

2. A student may at the discretion of the Committee be requested to withdraw at any time for reasons of unsatisfactory work or conduct.

3. Except in the case of illness or emergency students must not absent themselves without previous permission, and students persistently late or absent will not be allowed to sit for the examinations.

4. No student will be permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director

COURSES OF INSTRUCTION

Juniors	Hours	Seniors	Hours
English	1	Physiology of Exercise	1
Physics	1	Individual Gymnastics and Massage	2
Chemistry	1	Preventive Medicine	2
General Anatomy and Physiology	3	Kinesiology and Applied Anatomy	½
Physical Diagnosis	½	Principles of Education	1
Voice Development and Training	½	Organization and Administration	1
Theory of Physical Education	1	Theory of Physical Education	1
Educational Psychology	1	Child Welfare	½
History, Education and Physical Education	1	Gymnastics	4
First Aid	½	Games and Athletics	2
Playground Problems	1	Dancing	2
Gymnastics	4	Aquatics	1
Games and Athletics	3	Practice Teaching	3
Dancing	3		
Aquatics	1		20½
Teaching Observations and Practice Teaching	1		
	23½		

The hours as stated indicate hours per week for the session of thirty weeks.

THEORY

JUNIORS

English

A course of thirty lectures on English Literature and English Composition. The course in Literature will include a discussion of the various types of literature, poetry, the essay, the short story, the novel and the drama, with illustrations from the great writers of these particular types from Chaucer to Kipling. The course in English Composition will include theory and practice in the use of words. the structure of sentences, paragraphs and whole compositions and the making of reports, both oral and written.

Conference hours for small groups will be arranged at the convenience of assistants and students.

Professor Macmillan, Assistant Professor Noad,
Miss Gurd, Miss Gray, Director Moyse Stage.

1st and 2nd Term, 1 hour, Mon. 12.

Physics

This course is adapted to problems in physical education, so as to give the students an understanding of the practical applications of physical laws and principles bearing upon their work.

Mechanics (force, work, power, energy, mechanical advantage); *properties of matter* (density, elasticity, cohesion, adhesion, capillarity, surface tension, osmosis, gas laws); *heat* (temperature, specific and latent heat, modes of transfer, effects, humidity); *light* (undulatory theory of electromagnetic waves, source within the atom, laws of reflection, refraction, images with mirrors and lens, photometry); *magnetism* (methods of magnetization, lines of force, poles, law of force, compass); *electricity* (properties of positive and negative charges, electroscope, friction machines, currents, cells, electrolysis, magnetic effects, induction dynamo motor, Ohm's law, therapeutic uses of electricity).

Professor Reilley, Dr. Douglas. 1st Term, Wed. 11, Fri. 9.

Chemistry

This course will include the fundamental principles requisite for a knowledge of general chemistry. Stress will be laid upon the chemical interpretation of (a) combustion and its relation to respiration, (b) water purification and sanitation, (c) disinfection, (d) pasteurization. Where possible, trips will be arranged for practical demonstrations of the above lectures.

A series of lectures will be given on the phenomenon of solution in its various phases of neutralization, hydrolysis, electrolysis and osmosis. Compounds met with in ordinary daily routine will be discussed and illustrated with experiments. In conclusion, there will be a brief introduction to organic chemistry of general interest.

Dr. Hatcher 1st and 2nd Terms, 1 hour, Fri. 10.

General Anatomy and Physiology

The purpose of this course is to give the student a clear conception of the human body as a *living mechanism* in which the functions and structure are inseparably related, and in which the activities of

all parts are intimately co-ordinated. As far as possible, therefore, the anatomy and physiology of the various organs and systems are considered together.

After an introductory study of the structure of the body as a whole, the great vital phenomena which distinguish all living organisms are considered and a detailed analysis made of the way in which they are exemplified in man.

In this way the various processes which go to make up the life cycle are taken up; the processes of ingestion, digestion, absorption, assimilation, catabolism, respiration, excretion, irritability and conductivity, movement and reproduction—and the structure of the organs concerned in these functions studied.

Professor Simpson 1st and 2nd Terms, 3 hours, Mon., Wed., Fri., 9.

Physical Diagnosis

Lectures and practical demonstrations in the methods of examination for defects of posture and development, especially of the spine and thorax; description of deformities due to disease; examination by inspection palpation, percussion and auscultation; tests for sight, hearing, nasal obstruction; examination for dental defects.

Students will be taught the early recognition of contagious disease, the more common defects and when to seek expert advice. Practice in methods of examination will be carried on under supervision in the Senior Year.

The course will include a study of human measurements, with reference to signs, body proportions, state of development and function of the body; the effect of age, sex, occupation, race and environment on development—adaptability to various forms of exercise and occupation—demonstrations of the use of various anthropometric instruments.

The application of this material will be made to educational institutions, including such follow-up procedures as: the hygiene of instruction, conservation of sight classes, fresh air rooms, school clinics, etc.

Dr. F. W. Harvey, Miss Herriott 2nd Term, Tues. 2.

Voice Development and Training

Special exercises and individual practice in breath control, enunciation, articulation, tone projection, ability to control and conserve the voice in giving commands, in instruction and in public speaking.

Mrs. Bragg 2nd Term, Thurs. 12.

Theory of Physical Education

This course includes a study of the contributions of psychology, biology and physiology to physical education, an analysis of the aims and objectives of physical education in relation to general education, standards for evaluating physical education activities and the underlying principles of curriculum construction. A section of the course will be devoted to the modern programme of health education. Readings, term papers and the construction of a curriculum will be required.

Miss Herriott — 1st and 2nd Term, 1 hour, Mon. 9, Tues. 10.

Educational Psychology

A brief outline of general psychology, with special reference to the relation between mind and body and the most important principles of educational psychology, including a study of original nature, the laws of learning, transfer of training, etc.

Dr. Best — 2nd Term, Mon. and Wed. 11.

History of Education and Physical Education

This course will trace the development of physical education through the different periods of world history. Attention will be given to the characteristics of the people and to the ideals and customs of time and place as determining factors in the development of general education and of physical education.

Miss Herriott — 2nd Term, Thurs. and Sat. 9.

First-Aid

The endeavour in this course is to give the student a thorough practical knowledge of the correct action to take in cases of emergency.

The treatment of burns, scalds, sprains, dislocations, fractures, shock, hemorrhage, poisoning, etc., also the various kinds and uses of bandages, splints, antiseptics, etc., are carefully considered.

Successful students qualify for the certificate of the St. John Ambulance Association.

Dr. Tees — 2nd Term, Fri. 2.

Playground Problems

This course will relate the psychological principles to the actual activities of child life and the types of activity best suited for children of varying ages and development; theories of play, etc.

The various playground activities; individual, group and mass athletics, dancing, games, singing, pageants, festivals, story-telling, handicraft, as well as layout and equipment, will be specially considered.

Actual practical work and visits to grounds form part of the course.

Dr. Lamb, Miss Hilda Strachan 1st Term, Tues., Thurs. 9.

SENIORS

Physiology of Exercise

The object of the course is to study by lectures and practical demonstrations the effects of exercise on the neuro-muscular system, metabolism, respiration, circulation, etc. The work in this course will supplement and apply the problems studied in physiology to the working power of the human machine.

Dr. Lamb 2nd Term, Wed., Fri. 9.

Individual Gymnastics and Massage

General consideration of movements used for remedial treatment; actual practice in class work; observations in the hospital clinics.

A consideration of the theory and effects of massage taken in broad outline to give the students a knowledge of its general usage and benefits. Practice in technique of massage manipulation with application to minor disabilities.

Miss Hancock, Dr. Harvey

1st and 2nd Terms, 2 hours, Tues., Thurs. 9.

Preventive Medicine

The study of Preventive Medicine is taken up under the following heads:—

(a) *Bacteriology and Serology.*

Lectures and demonstrations are given in the study of the more common pathogenic organisms and communicable diseases. Their relation to health is considered in air, water, food, clothing, skin, hair, mouth, etc. Precautions against and means of combating pathogenic organisms are studied in, e.g., sterilization, disinfection, pasteurization, vaccination, immunization and general prophylaxis.

(b) *Personal Hygiene.*

A consideration of the philosophy of health, the social responsibility of the individual, the principles of mental hygiene, and the laws of healthful living in relation to the individual and environment.

(c) *Public and School Hygiene.*

Health organizations and the means for the maintenance of health; occupational diseases and the effect of various occupations on health, sanitation, light, heating, ventilation, water supply and drainage, school-room inspection, etc.

Dr. Starkey, Miss Herriott

1st and 2nd Terms, 2 hours, Tues., Thurs. 11.

Kinesiology and Applied Anatomy

This course will consist of a general review, by means of lectures and demonstrations, of the mechanics of movement of the human machine, also of the classification and analysis of exercise, joint-movements and the action of muscle groups in producing motion.

Dr. Harvey — 2nd Term, Fri. 11.

Principles of Education

This course includes a study of the underlying principles of general education and their application to the field of physical education.

Miss Herriott — 1st Term, Wed., Fri. 10.

Organization and Administration

This course comprises a study of various problems in organization and administration, from arranging a simple schedule of competitive events to the organization and supervision of a Department of Physical Education.

Actual visits to study organizations of various types will be made under supervision.

Dr. Lamb, Mr. Powter — 1st Term, Wed., Fri. 9.

Theory of Physical Education

A continuation of the course outlined for Juniors.

Child Welfare

A study of child life and the influences necessary to the normal development of the child, the treatment of dependent, neglected, delinquent and defective children; child-welfare legislation.

Assistant Professor Hughes — 1st Term, Fri. 12.

ACTIVITY COURSES

Juniors and Seniors

The practical courses are planned to enable the student to gain not only an adequate knowledge of the numerous activities in physical education, but also to attain a moderate degree of skill in each type and to be able to intelligently teach and direct motor activities.

The student is made thoroughly familiar with the broad underlying principles of practical work and is furnished with ideas and ideals, thereby facilitating the application to any conditions which may arise in the teacher's field of endeavour.

Gymnastic Floor Work

Section I

Swedish and Danish gymnastics, with apparatus work.

Section II

Rhythmical gymnastics, including the use of hand apparatus—Indian clubs and wands.

Section III

This material includes such informal activities as game skills, stunts, tumbling, pyramid building, and self-testing activities.

Section IV

This period is devoted to lectures and discussion of the material in the activity sections.

Games and Athletics

Section I

Indoor Games—Playing games suitable for children, also practice in teaching and compiling of games.

Section II

Basketball and Indoor Baseball, Tennis, Field and Ice Hockey, Archery. This course offers training in the fundamentals of the game and aims to develop efficiency in coaching and officiating.

Track and Field Activities

Participation in all Field and Track Athletics with practice in coaching and officiating.

Dancing

SECTION I

Character and Interpretive Dancing—including technique, dances suitable for use in schools, etc., and original dance compositions by the students.

SECTION II

Folk, National and Clog Dancing.

SECTION III

Natural Dancing. This material is a rhythmic expression of the native and fundamental activities. The work includes child rhythms and plays, music interpretations and natural dances.

Aquatics

This course includes methods of individual and class instruction of breast, back, side, crawl and trudgeon strokes; diving; life saving; methods of release, rescue, resuscitation; water polo, aquatic meets, etc.

Miss Herriott, Miss Wain, Miss Slack, Miss Thompson, Dr. Lamb, Mr. Finlay, Major Forbes, Mr. Van Wagner and Mr. Powter.

Practice Teaching

JUNIOR YEAR

During the first half of the second term, opportunities are provided for weekly visitations to public and private schools, Y.W.C.A., Montreal Amateur Athletic Association, etc.

During the second half of the second term, practice teaching under staff supervision is required at the University Settlement, Montreal Day Nursery, and Hebrew Orphans' Home.

SENIOR YEAR

From October to March practice teaching under staff supervision is required at the University Settlement, Montreal Day Nursery, and Hebrew Orphans' Home.

During March and April, the opportunity is provided for practice teaching in the public schools of the city.

In addition to the above, each senior student is provided with a class outside of the University for which she assumes the full responsibility.

Athletic leagues in the city of Montreal provide experience in officiating.

SCHOOL FOR SOCIAL WORKERS

FOREWORD AND HISTORY

The School for Social Workers was founded in 1918 to provide social education and to supply the demand from Canadian cities for social workers with a breadth of view and scientific training. It has developed gradually from a department fostered by the Joint Board of the Theological Colleges, the social agencies of Montreal, McGill University, the Graduates' Society and interested individuals into its present status of a School. It is separate from any other faculty or department but is a constituent part of the University. After three years of trial and experiment the School was able to offer a regular one-year course of lectures, covering the practical side of social work and the educational background necessary for a proper appreciation of modern social problems.

From 1923 onwards the work of the School centred around a two-year course leading to a diploma. In the same year a separate Department of Sociology was formed within the Faculty of Arts, and Arts students may take honours in it, while graduates may make it a study for their M.A. degree. This department exists to carry on a scientific study of human society. The results of this research are accessible to the social worker as well as to the student. Many sociological courses are included in the curriculum of the School for Social Workers.

In 1925 the School attained a standing which entitled it to membership in the Association of Schools of Professional Social Work. Scholarships donated by the American Women's Club, the Montreal Women's Club, the Notre Dame de Grace Women's Club, the Rotary Club of Montreal and the Alumnæ of the School have accomplished a great deal towards ensuring a high educational standard for social work and towards attracting promising persons to such a vocation.

Graduates of the School hold positions ranging from executive secretary to case worker or visitor in the social agencies, and their activities cover such different fields as family welfare, hospital social service, child placing, juvenile delinquency, mental hygiene, working girls' and boys' homes, and work with the handicapped and the tubercular. Other graduates, who are educated for the solution of the problems they meet, are fulfilling their duties of citizenship effectively as volunteers in social work.

Social work, or social service, is not a new development, and its professional aspect alone is comparatively recent. At the end of the nineteenth century the number of permanent salaried positions for well-qualified men and women increased so greatly that a professional aspect

was imparted to the work which had formerly been left in the hands of the casual volunteer. At this time social workers began to look beyond the remedial measures which would readjust the family or individual to normal conditions of life, and to seek the causes of mal-adjustment in order to build up a programme of preventive service. To-day the number of social agencies with a preventive policy, which provide facilities for wholesome personal and social development by means of community, recreational and educational work, is steadily increasing.

Without schools or text-books to prepare them for the profession of social work, the workers had to acquire their training through a system of apprenticeship, as was followed by the early educational methods in the older professions of law and medicine. This was a haphazard way and the cost was high in mistakes and inefficiency, made at the expense of the agency and the client. Those who had charge of the training of the novice had many other duties which prevented them from devoting the time to the supervision which such a specialized task requires.

At the end of the nineteenth century, training courses of a few weeks were given by universities and interested organizations. From this simple nucleus has gradually emerged the modern school of social work, with a curriculum covering several years, an organized system of field work, text-books and staffs of instructors who give all their time to teaching and supervising. Standards of social work have advanced along with standards of professional training, and now the social worker is required to have a scientific knowledge and a technique which requires skilled performance to be effective.

THE FIELD OF SERVICE

The demand for trained and educated persons in the field of social work is in advance of the supply. Social work is a profession for men as well as for women, and the School seeks the entrance of young men to meet the requests which come from the social agencies. The positions offered present opportunities equal to those of the teaching profession and the ministry. The trained social worker may follow his or her profession, in the following fields:—

Family welfare, child welfare, work with boys and girls, immigration, institutions for the care of children and adults, hospital social service, church social service, juvenile courts, clubs, settlements, community work, personnel management, government departments, social welfare organizations, employment bureaux, social research, Y.W.C.A., Y.M.C.A. and rural community work.

EDUCATIONAL AIMS

The School offers opportunities for training and education to the following groups:—

1. Those who wish to take up social work as a profession.

2. Volunteer workers who wish to acquire more knowledge and skill in social work.

3. Workers in service who have not had training in a school of social work, or who have had a limited amount of training.

4. Members of boards and social service committees who desire a clearer insight into the matters with which they have to deal.

5. All those who wish to realize more fully the social obligations of citizenship. The course offers a chance and a challenge to contribute to the building of Canadian life on a broader and more enduring social knowledge.

The extension courses in 1927-28 consisted of a course on Social Work given by Miss Reid to 48 members of the Junior League and one on Immigration given by the Director to 14 members of interested committees and departments. Eight Lyceum lectures were delivered by members of the staff in Montreal and the towns of Quebec.

Following the policy of interpreting social work to the community by bringing social technicians to Montreal to lecture, three speakers addressed various groups and were available for consultation. Miss Charlotte Whitton spoke to the Notre Dame de Grace Women's Club; Mr. Whiting Williams, Industrial Counsel, addressed the American Women's Club, the Montreal Women's Club, the Social Workers' Club and an open meeting at McGill University; and Mr. E. C. Lindeman, sociologist, lectured to the Business and Professional Women's Club, the Rotary Club, the Social Workers' Club, the People's Forum and an open meeting at McGill University.

The School and the Department of Extra-Mural Relations are ready at all times to co-operate with existing organizations by providing speakers on social-education topics. They will also arrange series of popular lecture courses in the social field for churches, schools, social agency boards, social service committees, community and neighbourhood organizations. In addition, social clinics will be organized for interested groups.

ADMISSION

Candidates for admission are required to make application on a form supplied by the School, at an early date.

Students intending to register must first call at the Office of the School for Social Workers.

Diploma Course (Two Years).—A Junior Matriculation Certificate or its equivalent will be required for admission to this course. It is highly desirable that entrants to the School should be university graduates.

TYPES OF PREVIOUS EXPERIENCE.—College graduates, graduate nurses and teachers should take the course successfully.

AGE.—Persons under 20 and over 35 years of age will only be admitted under exceptional circumstances.

STUDENTS AS UNDERGRADUATES IN ARTS.—Those who are too young to enter the School for Social Workers may take all, or part, of their Arts Course, specializing in the field of Sociology and allied Departments. This gives a fundamental background for social work. A graduate having so specialized may cover the Diploma Course in one year. During the undergraduate years, it is possible to get practical experience in the settlements and clubs in Montreal.

PARTIAL STUDENTS.—All lectures in the School for Social Workers are open to Partial Students, at the discretion of the Director. A statement of standing for courses taken under examination can be obtained, but credit is not given towards a diploma for partial courses.

LOAN FUND

A small loan fund is at the disposal of the Committee, from which assistance can be given to a student who would otherwise be unable to take the work of the Department. Loans will be repayable on easy terms.

Applications for assistance from this fund should be made as early as possible.

SCHOLARSHIPS

Among our college graduates, and also among those with a good general education who have been successful in the practical affairs of everyday life, there are many promising persons who would perform splendid service in the field of social work. For the benefit of such persons, who would find it impossible to arrange for an extended period of practical education and training in social work, a few scholarships have been established. These scholarships are for two-year (Diploma) students, and amount to $150 for each of the two years. They will be awarded on a basis of ability, experience, references and financial need.

The Montreal Women's Club Scholarship, the Notre Dame de Grace Women's Club Scholarship, the Montreal Rotary Club Scholarship, the Alumnæ Scholarship for the years 1928-30, and the McGill School for Social Workers Scholarship of $240, for a university graduate who can complete the course in one year, are all open to candidates. Applications should be sent to the Director at an early date.

The American Women's Club Scholarship will not be again available until 1929.

Prizes are offered for the highest standing in the work of the various courses.

FEES

For Diploma Students.—The annual fee is $70.00; if paid in two instalments (in October and February) $72.00 (this includes the library fee).

Other fees payable by women students are as follows:—

Grounds Fee	$6.00
McGill Women Students' Society	2.50
McGill Daily	1.50

For Limited Diploma Students.—The fee is $18 a course.

For Late Registration.—Those students who register after the period of university registration will be charged an additional fee of $5.00.

Students are also required to deposit with the Bursar the sum of $5.00 as caution money, to cover damages done to furniture, apparatus, books, etc. This amount, less deductions (if any), will be returned at the close of the session. Books and other School expenses should not exceed $15.00.

Partial Students.—Partial students will be charged a fee at the rate of $7.00 for an hour a week of instruction during the academic year. Partial students taking three hours or more a week will be required to pay the Library fee ($4.00), the Grounds Fee ($3.00), and deposit $5.00 with the Bursar as caution money.

Partial Students may, if they so desire, secure the privileges of the skating rinks and tennis courts during the session and admission to the home games under the control of the Athletic Board by the payment of an additional amount of $7.00 for men and $3.00 for women.

Extension Course Students and Partial Students taking less than three hours a week of Instruction.—These students desiring to use the University Library will be required to deposit $5.00 with the Librarian to cover damage done to books. This amount, less deductions (if any), will be returned at the close of the session.

Fees may be paid before October 1st or on Wednesday, October 10th, 1928. They may be paid by cheque, which should be mailed to the Bursar so as to reach him by the last-named date.

BOARD AND LODGING

Accommodation for a limited number of out-of-town students can be arranged for at the settlements. Residents are required to give one or two evenings a week to helping in the work of the settlement.

FACILITIES

Montreal as a Social Work Laboratory.—In Montreal, the student can see a large number of social agencies in operation and can know at first hand how experienced social workers help people to solve their difficulties. A variety of opportunities for the practice of social work under guidance is offered, which is essential to the education of the social worker.

Library.—The School has developed a special library dealing with social problems and social work. The books in this, and also in the University library, are readily accessible.

Lectures.—Apart from the lectures that the student is required to attend, there are many others given at McGill by local and visiting professors and eminent public men. These are interesting, stimulating and instructive.

Social Life.—All students in the School may become members of the Undergraduate Society of the McGill School for Social Workers, and thus participate in its various social activities and student administration. This society gives the School representation in the Women Students' Society of McGill, and links the students with the larger life of the University.

Alumnæ Society.—The Alumnæ Society, founded in 1925, is an active organization which unites the graduates and maintains their contact with the School and its students. Enjoyable and interesting meetings are held during the year.

Medical Examination.—After college opens all new students must present a certificate of medical examination. The examination may be made by the student's own doctor or by the University Medical Officer. The latter examination is held free of charge. Students desirous of having the examination made by their own physician, and more especially those coming from out of town, must secure from the Secretary a medical form and have it filled in by their doctor before coming to the University.

Athletics.—Athletic exercises in the form of gymnasium and dancing classes, basketball, tennis, ice hockey, etc., are available. All students desiring to take part in any of these activities, as well as students coming to the University for the first time, are required to present a satisfactory medical certificate.

REQUIREMENTS FOR A DIPLOMA

First Year Courses:

	Hours per week for the session
History of Social Work	3
Introduction to the Study of Society (Sociology 1)	3
Introduction to Psychology (Psychology 1)	3
Public Health and Preventive Medicine	2
Social Economics (Economics 2)	3

Second Year Courses:

First Term		Second Term	
Child Welfare	2	Home Economics	1
The Family (Sociology 7)	3	Social Case Work	3
Public Speaking	1	Social Legislation	1
Social Case Work	3	Social Pathology (Sociology 4)	3
Social Legislation	1	Social Welfare Administration	2
Field Work 2 days per week.		Field Work .....2 days per week	

Alternative Courses:

The following courses may be substituted for ones already covered; or, if the student plans to do special work along one of these lines, the course may take the place of a Second Year subject.

Playground Problems	2 hrs.	per	week,	1st term.
The Community, a study of Rural and Urban Life (Sociology 2)	3 "	"	"	sess.
Personality (Sociology 13)	3 "	"	"	1st term.

A student may proceed to the Second Year with any one full course, or its equivalent, unpassed. A certificate of standing can be given on the satisfactory completion of one year's work.

The Diploma of the School is awarded to students who obtain not less than 50 per cent in any one written examination, and satisfactory reports from the social agencies in which their field work has been taken.

Students holding degrees, diplomas or certificates from any recognized University will be given credit for courses which they have covered, but the School may require them to take an examination on such subjects.

FIELD WORK

Too much emphasis cannot be laid on the importance of field work as part of the training of a social worker. During the First Year of the course, observation trips, attendance at social work clinics and one day and a half in the agencies from January to May comprises the field work during the session. Following the May examinations, there will be one month of intensive field work with a family welfare agency.

Before the beginning of the Second Year lectures, the month of September will be devoted to family welfare field work. During the session two days a week of field work will be spent with hospital social service departments, children's agencies, social settlements and so forth. Following the final examinations, a third month of intensive field work will be spent in that branch of social work in which the student intends to specialize.

TIME REQUIRED

Students taking the two-year Diploma Course cannot expect to do the work of the School satisfactorily unless they give their full time to it. Students must take into consideration the two months of full-time field work between the First and the Second Year, and the one month of field work following the final year of the course, as well as the two regular scholastic years of eight months each. The whole course covers a period of twenty-one months, including the two and a half months of vacation between the two years, except in the case of University graduates who are exempted from the First Year.

Students who for special reasons are not able to follow the regular curriculum of the course, may, if those reasons appear satisfactory to the Director, be accorded the status of Limited Diploma Students. Such students may distribute their work over three or four years, on the understanding that the sequence and arrangement of courses shall follow the requirements laid down in the regular curriculum.

COURSES OF LECTURES

I. COURSES IN THE SCHOOL FOR SOCIAL WORKERS

History of Social Work. Three hours.....Miss Reid.

Practices in caring for dependent individuals and groups among some of the ancient peoples, and in the Mediæval age; the English Poor Law and the beginnings of modern social work; types and method of social treatment in other countries; the background of modern case work methods.

Social Case Work. Three hours.....Miss Reid.

This course presents, through the study of actual histories, the case method of dealing with social maladjustment. It enables the student to approach, analyze and interpret individual, family and group problems and to recognize the basis upon which to work out a solution. It discusses the function of the different types of social agencies in the working out of a social programme, and offers a practical basis for constructive and preventive social work.

Social Legislation. One hour.....Miss Reid.

The purpose of this course is to enable the student to know and to use effectively social legislation as a community resource.

Home Economics. One hour, 2nd term.....Miss Philp.

Food in relation to health; the dietetic and economic values of foods; planning menus; family budgets and their use.

Child Welfare. Two hours.....Dr. Hughes

A study of the child as a developing personality, with the typical problems of personal and social adjustment which may and do arise; consideration of the movements and institutions which deal with these problems, especially in urban communities.

Text: Mangold, Problems of Child Welfare (Macmillan).

Social Welfare Administration. Two hours, 2nd term...Mr. Falk.

Historical development; scope, and relations between public and private agencies; organization and structure of a social agency; officers and boards of management; executive and staff; volunteer service; personal efficiency; office management; social agency accounting; social agency financing, individual, collective; social work publicity; social work statistics; social work co-ordination; the field of Protestant and non-sectarian social work in Montreal.

Public Health and Preventive Medicine. Two hours.

Department of Public Health and Preventive Medicine.

Public health in general; the value of health to the individual and the community; the cost of preventable disease; the public health aspect of the communicable diseases, including tuberculosis and the venereal diseases, methods of prevention and control; safeguarding of water, milk and food supplies; rural and urban hygiene; housing, ventilation; maternal, infant, pre-school and urban hygiene; industrial and mental hygiene; personal hygiene.

A history of the phases of public health development and an outline of its relation to social work; an explanation of the relations of governments, health and social agencies; the social worker's use of the community's health resources.

Public Speaking. One hour, 1st term.....

II. COURSES IN THE SCHOOL OF PHYSICAL EDUCATION

Playground Problems. This course will relate the psychological principles to the actual activities of child life and the types of activity best suited for children of varying ages and development; theories of play, etc.

The various playground activities, individual, group and mass athletics, dancing, games, singing, pageants, festivals, story-telling, handicraft, as well as layout and equipment, will be specially considered.

Actual practical work and visits to grounds form part of the course. Dr. Lamb, Miss Hilda Strachan....2 hours, 1st term, Tues., Thurs., 9.

III. COURSES IN THE FACULTY OF ARTS

Introduction to the Study of Society (Sociology 1). Three hours.
Dr. Dawson.

An environmental approach to the study of human nature and behaviour; an objective and scientific analysis of human relations; ecological and social forces; the great society and the growth of communication; conflict as a social function; the social order and social change; definition and use of the main sociological concepts.

The Community (Sociology 2). Three hours.
Dr. Dawson and Mrs. Hughes, Research Assistant.

A study of Greater Montreal in comparison with the small town and open country communities. Analysis of the basic forces that condition the social life and social institutions of the great community. The trend of urbanization and its effects on human behaviour. Cities as centres of dominance and culture. Student research under direction.

Immigration (Sociology 3). Three hours, 2nd term..Dr. Dawson.

Canadian population, racial origins, racial differences and race relations. Social effects of migration and immigration. Selection and assimilation of immigrants. The optimum population for Canada.

Social Pathology (Sociology 4). Three hours, 2nd term.

Dr. Hughes.

The processes of social disorganization; the basic causes of poverty; unemployment, irregular work, industrial fatigue and the consequent demoralization of the individual and disorganization of the social group; social unrest and disorder; critical analysis of the attempts to control and reorganize society in the light of pathological social conditions; modern methods of research in the study of social change as it is related to social pathology.

Text:—Parmeleé, Poverty and Social Progress (Macmillan).

The Family (Sociology 7). Three hours, 1st term.....Dr. Hughes.

The study of the family as the fundamental institution, its early forms, attitudes, and natural history; sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational and legal aspects of family life. Present-day disorganization and reorganization of family life.

Personality (Sociology 13). Three hours, 1st term....Dr. Dawson.

Social situations, social conditioning, personality development, and personality types. An extensive use of concrete descriptive material, biographical and autobiographical documents. Problems of personality adjustment.

Introduction to Psychology (Psychology 1).

Three hours .....Professor Tait and Mr. Smith.

Lectures and experiments.

Social Economics (Economics 1).

Three hours.....Assistant Professor Farthing.

A study of the economic system with particular reference to social justice.

SCHOOL FOR GRADUATE NURSES

GENERAL STATEMENT

The School for Graduate Nurses was opened in 1920 to provide training for Public Health Nurses and to prepare nurses for administrative and teaching work in hospitals and schools of nursing.

The establishment of the School for Graduate Nurses was made possible by the generosity of the Quebec Provincial Red Cross Society, which agreed to finance the undertaking for three years. In October, 1924, the University, satisfied that the School was doing work of value to the community, became responsible for its maintenance.

During the session 1924-25 a new course of study was offered—Supervision in Schools of Nursing. This was arranged in order to meet the needs of nurses not qualified to enter the course in Administration, but wishing to prepare for positions as Supervisors or Assistants in Schools of Nursing.

One hundred and twenty-two students have graduated from the School and the majority of them are filling positions of importance in Schools of Nursing or in Public Health Nursing.

Each year, besides the students taking full-time courses leading to a certificate, a number of partial students have been registered. In this way nurses on the staff of one or other of the local hospitals, the Victorian Order of Nurses, the Metropolitan Life Insurance Co., and the Child Welfare Association have profited by the opportunities offered in the School.

AIMS OF THE SCHOOL

The courses offered in the School for Graduate Nurses are designed to prepare qualified nurses to act as instructors, supervisors, assistants or superintendents in training schools for nurses; as superintendents of small hospitals; and as public health nurses. The hope and aim of the School is to send out teachers and leaders, who, whether by helping to improve the methods and raise the standards of nursing education in Canada, or by doing efficient work in the varied fields of public health nursing, may alike serve the community as health workers.

"Superintendents, supervisors, instructors, and public health nurses should in all cases receive special additional training beyond the basic nursing course." (Conclusion 7, Report of the Committee on Nursing Education, Rockefeller Survey.)

COURSES OFFERED IN THE SCHOOL FOR GRADUATE NURSES

A.—PUBLIC HEALTH NURSING

This type of nursing is developing all over Canada. The field of Public Health Nursing is ever widening, the interest of such work is beyond question, and the need of qualified workers is very great. In addition to the demands in the fields of generalized Public Health Nursing, there are many opportunities for nurses with post-graduate training in the special fields, such as school work.

The education and experience given in Schools of Nursing do not adequately prepare the nurse to meet the demands of modern health work. Public Health Nursing is largely preventive, social and educacational in character, while the training given in Schools of Nursing is chiefly of a remedial nature.

Extract from Conclusion 1 of the Report of the Committee on Nursing Education, Rockefeller Survey :—"That as soon as may be practicable all agencies, public or private, employing public health nurses, should require as a pre-requisite for employment the basic hospital training, followed by a post-graduate course, including both class work and field work, in public health nursing."

PROGRAMME OF STUDY

The following programme is planned to give a fundamental preparation for generalized or special forms of public health nursing:—

Required:—

Principles of Public Health Nursing.
Special Health Problems and Special Fields of Public Health Nursing.
Preventive Medicine.
Child Hygiene.
Elementary Psychology.
Principles of Teaching.
History of Nursing.
Elements of Social Science.
Social Case Work.
Nutrition.
Field Work, Public Health Nursing.

Electives:—Mental Hygiene, Social Psychology, Child Welfare, Physical Diagnosis, Bacteriology, Control of Communicable Disease, Industrial Hygiene, Public Speaking.

B.—TEACHING IN SCHOOLS OF NURSING

A two-year course with a minimum of 14 hours lectures weekly, leading to a diploma.

The need of qualified instructors for Schools of Nursing is being very generally realized as the necessity for improved educational methods in these schools becomes increasingly apparent. The demand for such instructors is still greatly in excess of the supply.

PROGRAMME OF STUDY

Required:—

Introduction to Psychology.
Educational Psychology.
Introduction to Sociology.
Teaching in Schools of Nursing.
Teaching in Schools of Nursing with Practice Teaching.
Supervision in Schools of Nursing.
Teaching of Nursing Methods.
Preventive Medicine.
History of Education.
History of Nursing.

Electives:—Anatomy and Physiology, Nutrition, Child Hygiene, Materia Medica, Bacteriology, Zoology, Chemistry, Physics, Mental Hygiene, Social Psychology, Public Speaking.

A selection from the above-named subjects of at least 15 credits may be taken as a one-year course.

C.—ADMINISTRATION IN SCHOOLS OF NURSING

This course is planned to prepare experienced women of superior qualifications for positions as superintendents in Schools of Nursing, or as superintendents of small hospitals.

PROGRAMME OF STUDY

Required:—

Administration in Schools of Nursing.
Hospital Administration.
Elementary Psychology.
Elements of Social Science.
General Problems in Nursing Education.
Public Health Nursing.

Teaching in Schools of Nursing.
Principles of Teaching.
Teaching of Nursing Methods.
History of Nursing.
Preventive Medicine.
Field Work.

Electives:—Bacteriology, Control of Communicable Disease, Child Hygiene, Nutrition, Mental Hygiene, Introduction to the Study of Society, Public Speaking.

D.—SUPERVISION IN SCHOOLS OF NURSING

As training schools for nurses are gradually being organized on an educational basis and the necessity for more adequate supervision becomes apparent, the need for specially prepared nurses to act as Assistant Superintendents and Supervisors is recognized.

PROGRAMME OF STUDY

Required:—

Supervision in Schools of Nursing.
Special Problems in Supervision.
Teaching in Schools of Nursing.
Teaching of Nursing Methods.
History of Nursing.
Public Health Nursing.
Mental Hygiene.
Elements of Social Science.
Elementary Psychology.
Principles of Teaching.
Preventive Medicine.
Field Work.

Electives:—Child Welfare, Child Hygiene, Materia Medica, Nutrition, General Problems in Nursing Education, Bacteriology, Control of Communicable Disease, Public Speaking.

REQUIREMENTS FOR CERTIFICATES OR DIPLOMAS

Length of Courses:—The courses in Public Health Nursing, Supervision in Schools of Nursing and Administration in Schools of Nursing, each cover one academic year and lead to a certificate.

The course in Teaching in Schools of Nursing leads to a diploma and requires two academic years unless the student brings credit from a University or normal school.

A certificate of partial completion of the course in Teaching in Schools of Nursing is given on the successful completion of one year's work.

The minimum period of residence for a certificate or diploma is one year.

A certificate or diploma course requires fourteen hours weekly or the equivalent throughout the academic year. (Two hours laboratory equals one hour lecture.)

EXAMINATIONS

Certificates or diplomas are awarded to students who obtain an average mark of 50 per cent in all examinations and not less than 40 per cent in any one examination.

In the case of students who do field work, satisfactory reports must also be received from the agencies with which their field work has been taken.

Examinations are held in some subjects at the end of the first term and final examinations are held in May. The School closes at the end of May.

ADMISSION REQUIREMENTS, REGISTRATION, SCHOLARSHIPS, MEDALS AND FEES

ADMISSION REQUIREMENTS

Nurses desiring to enter for any course given in the School for Graduate Nurses must present:

1. (a) For the course in Public Health Nursing, evidence of having completed three years of High School work or of equivalent education; (b) For the course in Teaching in Schools of Nursing, evidence of a complete High School education or of an equivalent which is adequate for the requirements of the University; (c) For the course in Administration, evidence of having completed three years of High School work or of equivalent education, and in addition, of having held satisfactorily, subsequent to graduation, for at least one year, a position which has demonstrated fitness for responsible executive work of this kind; (d) For the course in Supervision in Schools of Nursing, evidence of a complete High School education or of an equivalent which is adequate for the requirements of the University.

2. Evidence of the satisfactory completion of a course in a Nurses' Training School of approved standards, covering a complete general training of at least two years. Nurses must be registered when coming from a State or Province where registration is in force, and must be eligible for membership in the Canadian National Association of Trained Nurses.

MEDICAL CERTIFICATES

As the work demands continued and concentrated effort, students must be in good physical condition, and must present a medical certificate to that effect.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence of successful vaccination, failing which, they shall at once be vaccinated in a manner satisfactory to the authorities.

Application for admission should be made during the spring and early summer, if possible. For application blanks and further information, write to the Director, School for Graduate Nurses, McGill University.

Partial Students:—Qualified nurses may register for certain courses, with the consent of the Director.

REGISTRATION AND RESIDENCE

Students in Public Health Nursing who have not had experience in Public Health work will register September 17th for two weeks' field work with the Victorian Order of Nurses and the Child Welfare Association.

Other students will register on September 28th and 29th.

The opening lecture will be held on October 1st.

Students are required to consult the Director at the time of registration.

Addresses of boarding houses may be had from the Director.

SCHOLARSHIPS

A number of hospitals provide annual scholarships for their own graduates. Among these are the Royal Victoria Hospital, Montreal General Hospital, Hamilton General Hospital, Hospital for Sick Children, Toronto, and the Winnipeg General Hospital.

The Victorian Order of Nurses for Canada offers twelve scholarships of $400.00 each, to graduate nurses who wish to avail themselves of a post-graduate course in Public Health Nursing at any of the following Universities: Toronto, British Columbia, Western Ontario, Dalhousie, McGill.

Upon successful completion of her course, a nurse accepting one of these scholarships is expected to return to the service of the Victorian Order of Nurses for one year.

MEDALS

The Lieutenant-Governor of the Province of Quebec offers annually for competition a silver medal to be awarded to the student obtaining the highest standing in the course of Teaching in Schools of Nursing (diploma course) and a bronze medal to the student obtaining the highest standing in the course in Public Health Nursing.

FEES AND DEPOSITS

The fee for any certificate course is $100.00 a year (including the use of the Library), to be paid by October 10th, or payable in two instalments of $51.00 each, the first to be paid by October 10th and the second by February 1st.

Regular students pay in addition $6.000 for the use of the skating rinks and tennis courts and for admission to the home games under the control of the Athletic Board; $2.50 for the McGill Women Students' Society and $1.50 for the McGill Daily, as well as special fees for laboratory courses.

Partial Students:—Fee at the rate of $7.00 for an hour of instruction a week during the academic year; library fee of $4.00; $3.00 for athletics; special fee for courses which include laboratory work. Partial students may become members of the Women's Society on payment of the regular fee of $2.50. They may also secure the privileges of the skating rings and tennis courts during the session and admission to the home games under the control of the Athletic Board by the payment of an additional fee of three dollars.

A deposit of $5.00 caution money is required from all regular students.

EXPENSES

A statement of average expenses for the academic year is as follows:—

University fees	$110.00	
Books	20.00 to	$ 40.00
Room (30-32 weeks)	175.00 "	225.00
Board	225.00 "	300.00
Incidentals	30.00 "	40.00
Average total	560.00 "	700.00

COURSES OF LECTURES

1. Supervision in Hospitals and Training Schools.

Lectures, Conferences and Excursions:—Course designed for teachers and supervisors who require a general knowledge of organization and administration in hospitals and training schools It deals with the relation of departments to each other and with the ordinary problems of training student nurses.

Two hours, 1st term.....Miss Harmer and Miss Dickson.

2. Special Problems in Supervision.

Lectures, Conferences and Field Work:—A course specially arranged for students taking course D.

Field work, 2nd term.

One hour.....Miss Harmer and Miss Samuel.

3. Hospital Administration.

Lectures and Observations:—This course deals with the hospital and its relation to the community; the board of trustees, the medical board and the general staff; problems of planning, organization, equipment and administration of the various departments; the purchase and handling of supplies and other problems of hospital housekeeping from the point of view of the administrator.

One hour.....Dr. Haywood.

4. Administration in Schools of Nursing.

A.—Lectures and Conferences:—This course deals with the problems of training school organization and management, the qualifications of Superintendent or Principal and her responsibilities, the arrangement, control and supervision of practical work in wards or other hospital departments; the selection and direction of assistants and ward staff.

Two hours.....Miss Harmer and Miss Samuel.

B.—Excursions and Conferences.

One hour, 2nd term.....Miss Dickson.

C.—Field Work Conferences.....Miss Harmer.

5. Teaching in Schools of Nursing.

A.—Lectures and Conferences:—This course deals primarily with the curriculum of the nursing school, outlining the aims to be achieved through the course of study, the selection and arrangement of subjects in the curriculum, the selection and use of text and reference books and other teaching materials.

One hour, first year.....Miss Harmer.

B.—Second year:—Discussion of the principles to be applied and methods to be used in teaching the various subjects of the curriculum; preparation and discussion of lesson plans.

One hour.....Miss Harmer and special lecturers.

C.—Practice Teaching:—Second year, one hour.

6. Teaching of Nursing Methods.

A course especially for students intending to teach the practice of nursing, either as instructors or supervisors.

One hour, 2nd term.....Miss Harmer and special lecturers.

7. Problems in Nursing Education.

This course deals with problems in connection with legislation and registration, the organization of nurses' associations, examining boards, inspection of Schools of Nursing.

Two hours, 2nd term.....Miss Harmer and special lecturers.

8. Principles of Public Health Nursing.

Lectures, Prescribed Readings, Excursions and Conferences:—Discussion of necessary preparation for public health work, basic principles, administration and organization of same; special fields, including lectures in child welfare, tuberculosis, venereal disease; rural and visiting nursing given by nurses who are specialists in these branches.

Two hours.....Miss Slattery and special lecturers.

9. History of Public Health Nursing.

One hour, 2nd term.....Miss Slattery.

10. Special Health Problems and Special Fields of Public Health Work.

Oral Hygiene; pre-natal and natal work; maternal and infant welfare work.

One hour....Dr. Walsh, Dr. Goodall and other special lecturers.

11. History of Nursing.

A.—Illustrated Lectures, Reading:—Deals with the origin and historical development of nursing under monastic, military and secular control; Florence Nightingale.

One hour, 1st term.....Dr. Abbott.

B.—Lectures and Recitations:—Nursing conditions and progress in various countries.

One hour, 2nd term.....Miss Slattery.

12. Materia Medica.

Lectures and Demonstrations:—This course includes a discussion of drugs, their sources, crude forms, and preparation, with laboratory demonstrations; proper methods of administration, with physiological, therapeutic and toxic action.

One hour, 2nd term.....Dr. Scriver.

13. General Anatomy and Physiology.

Lectures and laboratory work in order to give the student a clear conception of the human body as a *living mechanism,* in which the function and structure are inseparably related, and in which the activities of all parts are intimately co-ordinated. The anatomy and physiology of the various organs and systems are considered together.

The purpose of the Course is the preparation for teaching these subject in Schools of Nursing.

Four hours, 2nd term.....Dr. Armour.

14. Nutrition and Dietetics.

Lectures, Recitations and Demonstrations—elements of nutrition and dietetics:—This course describes the essentials of an adequate diet, and the nutritive properties of common food materials. The application of such knowledge to the feeding of individuals and family groups is discussed, budgets, buying of foods, etc. Diet in disease is also considered.

One hour, 1st term.....Miss Hayward.

15. Public Health and Preventive Medicine.

This course is given by the staff of the Department of Public Health and Preventive Medicine of the Faculty of Medicine. Following an historical introduction, sanitation, water, food and milk supplies are considered. The control and prevention of the various communicable diseases are dealt with. The various hygienes are considered, ante-natal, infant, pre-school, industrial and mental. The course is concluded with lectures on vital statistics and public health administration.

A special course in industrial hygiene is given to students taking Course A.

Two hours..Department of Public Health and Preventive Medicine.

16. Bacteriology.

Classes and Laboratory Work:—The study of the more common pathogenic organisms, moulds and yeasts; use of microscope; preparation and use of culture media; bacteriology of milk and water; applications of bacteriology in public health and preventive medicine.

.....Department of Public Health and Preventive Medicine.

A.—Three hours, 1st term, for students taking Course A, C or D.

B.—Three hours, 2nd term, for students taking Course B.

17. Child Hygiene.

Principles of pre-natal care; prevention of blindness; importance of breast feeding; infant welfare clinics; the pre-school age child; detection of physical defects; feeding through infancy and childhood.

One hour, 1st term.....Dr. Chandler.

18. Control of Communicable Disease.

Lectures and Clinics:—The course deals with methods of applying modern scientific medical knowledge in the prevention of disease. Measures for prevention and methods of control and care are considered.

A.—Tuberculosis.

One hour, 1st term.....Dr. Byers.

B.—Scarlet fever, measles, diphtheria, smallpox, venereal diseases. Lectures and clinics.

One hour, 2nd term.....Dr. Cushing and Dr. Powell.

19. Neuro-Psychiatry and Mental Hygiene.

Discussion of modern psychiatry, with historical outline of development; the desirability of thinking of mental disorders in terms of behaviour; mental health, mental hygiene movement; the psychological development of the individual and the maladjustments of children, adolescents and adults; mental diseases, nursing and social treatment; community applications of mental hygiene principles and preventive treatment.

One hour, 2nd term.....Dr. Mitchell.

20. Elementary Psychology.

A brief outline of general psychology.

One hour.....Dr. Bridges.

21. Principles of Teaching.

A.—The aims of education for the individual, society, nursing schools; when and how do pupils really learn?; education as habit formation; the training of memory; how can we test the progress of learning?; how do pupils get hold of new ideas?; how can we get our pupils to pay attention?; how can we get vivid impressions on our pupils' minds?; the fine art of questioning.

One hour, 2nd term.....Dr. Best.

22. History of Education.

The purpose of the course is to present the essential features of the educational thought of the past as this has been shaped by economic, social, political and religious causes.

One hour.....Dr. Best.

23. Public Speaking.

Lectures, debates, etc.

One hour, 2nd term.....Mrs. Bragg.

24. The Elements of Social Science.

Society, human nature, group life; geography, race, sex and human conduct; man's behaviour controlled by neighbourhoods, communities, races, and other groups; the resultant customs, folkways, attitudes and standards; the nature of the chief institutions (family, industry, school, church, state, play, etc.); forces making for social change; leadership and progress.

One hour.....Associate Professor Dawson and Mrs. Hughes.

25. Social Case Work.

Principles, objective and method of case work, with special emphasis on actual case studies; adequate knowledge as a basis for judgment and action in effecting individual adjustments; how obtained and applied; relief—its place in case work; the relation of case work to the community; records; the use and purpose of records; record making; forms; correspondence, etc.

Two hours.....Miss May Reid.

26. Industrial Hygiene.

Lectures and Excursions.

This course deals with the dangers to life and health in factories and workshops, and with the practical work of sanitary inspection, medical administration, and preventive measures as applied to industrial establishments.

Two hours, 2nd term.....Dr. Pedley.

27. Field Work in Public Health Nursing.

Excursions, Observations and Practice.

This work is arranged with various health organizations, as follows:—

(a) The local Child Welfare Association.

(b) The Health centres of the Montreal Anti-Tuberculosis and Health League.

(c) The Royal Edward Institute.

(d) The Outremont and City School Nurses, by courtesy of the Departments of Health.

(e) The Social Service Departments of the Royal Victoria Hospital, the Montreal General Hospital and the Children's Memorial Hospital.

(f) The Family Welfare Association and other social agencies.

One and one-half days weekly throughout the academic year.

(g) The local branch of the Victorian Order of Nurses. One month for field work in visiting nursing.

For this work it will be necessary for each student to provide herself with a wash dress, long coat and plain hat.

(h) Industrial Nursing. Students wishing to specialize in Industrial Nursing will have special field work arranged.

Five weeks' intensive work is arranged before the opening and after the close of the session.

COURSES GIVEN IN THE FACULTY OF ARTS

Introduction to the Study of Society.

Human nature; society and the group; isolation and contact; the nature and effects of communication; social forces; competition and the location of the individual in the community; war, racial and cultural conflicts; social control; collective behaviour; social progress.

Three hours.....Associate Professor Dawson.

The Family.

The study of the family as a fundamental social institution, its early forms, customs, attitudes, and natural history; sociological interpretation of family relations in rural and urban life; biological, economic, religious, educational, and legal aspects of family life; present day disorganization and reorganization of family life.

Three hours.....Assistant Professor Hughes.

Introduction to Psychology.

Lectures, recitations and reports.

Three hours.....Professor Tait.

Social Psychology.

Lectures, prescribed readings and reports.

Three hours.....Professor Tait.

Educational Psychology.

Lectures, prescribed readings and reports.

Associate Professor Kellogg.

Elementary Zoology.

Lectures and laboratory work.

Four hours, 1st term.....Professor Willey and Demonstrators.

COURSES GIVEN IN THE SCHOOL OF PHYSICAL EDUCATION

Physical Diagnosis.

Lectures and practical demonstrations in the methods of examination for defects of posture and development, especially of the spine and thorax; description of the deformities due to disease; tests for sight, hearing, nasal obstruction; examinations for dental defects, enlarged tonsils and adenoids.

One hour, 2nd term.....Dr. Harvey.

Chemistry. Lectures and Demonstrations.

One hour.....Dr. MacLean.

Physics.

Mechanics, properties of matter, heat, light, magnetism, electricity.

Two hours, 1st term.....Professor Reilley, Miss Douglas.

COURSE GIVEN IN THE SCHOOL FOR SOCIAL WORKERS

Child Welfare.

Influences necessary to the normal development of the child in its home, at school, at play and at work; the treatment of dependent, neglected, delinquent and defective children; the child of the unmarried mother; child-welfare legislation.

Two hours, 1st term.....Assistant Professor Hughes.

DEPARTMENT OF PHYSICAL EDUCATION

FOR MEN

DIRECTOR, DEPARTMENT OF PHYSICAL EDUCATION:—ARTHUR S. LAMB.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.

ATHLETIC MANAGER:—MAJOR D. S. FORBES.

TRACK COACH AND ASS'T. PHYSICAL DIRECTOR:—F. M. VAN WAGNER.

HON. COACH:—DR. L. C. MONTGOMERY.

RUGBY COACH:—A. A. BURRIDGE.

SOCCER, GYMNASTIC COACH AND ASSISTANT PHYSICAL DIRECTOR:—HAY FINLAY

All students on entering the University and all students of the First and Second years are required to pass a physical examination. By such an examination, any physical defect or weakness may be discovered early, and the student will be advised in regard to treatment. For those defects amenable to treatment by exercise or other hygienic measures, individual attention will be given, and the student will be advised as to what forms of exercise will be likely to prove beneficial or harmful.

I. GENERAL

The aim of the University requirements in physical education is the maintenance and improvement of the physical well-being of the student body, and the production of graduates who are physically as well as mentally fitted for their life-work.

As voluntary exercise is of greater value than compulsory, great latitude is given the individual student in his choice of the type of activity.

The chief factors limiting this choice are:—

1. The suitability of the exercise as a means of physical education.
2. The physical fitness of the individual student to take the form of exercise chosen.
3. The possibility of effective supervision.
4. The practicability of ensuring regular participation.

The aim is not to replace the existing forms of University athletics, but to assist in developing an interest in these by every legitimate means.

II. REGISTRATION

1. At the time of registration every male student of the first three years in the Faculties of Arts, Medicine, Dentistry and Science and of the first two years in the Faculty of Law shall be given a printed announcement of the University requirements in physical education.* This announcement shall include a list of the recognized forms of physical activities in which a student may take part in fulfilment of the requirements, and a statement that at the time of his medical examination he will be expected to indicate his choice of the particular forms which he wishes to follow.

2. At the time of his medical examination, each student shall be required to fill in a card indicating his choice, as outlined in paragraph III. 1. The Director shall then decide as to his physical fitness for the form chosen and shall inform the student of his decision and note the same on his card, which shall be filed for reference.

3. Every student shall be categorized by the University Medical Officer as either:—

(A) Fit for all forms of physical exercise.

(B) Fit for a limited number of forms.

(C) Fit for gymnasium work only.

(D) Fit for remedial gymnastics, or temporarily unfit.

(E) Unfit for any forms of physical exercise.

III. EQUIVALENTS

1. Subject to paragraphs 2 and 3 the following activities are recognized as fulfilling the requirements:—University basketball, boxing, wrestling and fencing, English rugby, golf, gymnastic classes, harriers, hockey, indoor baseball, rugby, ski-ing and snowshoeing, soccer, swimming and water polo, tennis, track and field teams, the McGill C.O.T.C., and such other activities as shall be decided upon from time to time by the Committee on Physical Education.

2. Subject to the approval of the Director, as laid down in paragrap II. 2, any student who desires to participate in competitive athletics, as mentioned in paragraph III. 1, may be excused from other forms of exercise during the season of training, provided that this is performed to the satisfaction of the Director.

3. If successful in making a place on the team, he shall be excused from any other forms of exercise for the season of play, and *may* be excused for the remainder of the term at the discretion of the Director.

**Note.*—Owing to lack of accommodation these requirements are suspended for the Session 1928-29.

4. Any student who has been placed in Categories A, B, C or D at his University medical examination, and who does not voluntarily take part in any of the other recognized forms of exercise as provided above, shall be required to attend the regular gymnasium classes appropriate to his category.

IV. ATTTENDANCE

1. The amount of time required to be devoted to physical exercise by each student shall be two hours per week throughout the session. Until such time as the University is in possession of its own gymnasium, however, this amount of time may be reduced by the Committee on Physical Education to meet the exigencies of gymnasium accommodation.

2. A record will be kept of the attendance of every student as far as his required physical work is concerned.

3. Medical certificates covering absences which are accepted by the Dean of the Faculty concerned will be accepted by the Department, but if the student is able to attend lectures the question of his fitness to take part in physical exercise shall rest entirely with the Director and the University Medical Officer. Medical certificates covering absences from the University must be presented to the University Medical Officer by the student within one week after his return to University work.

4. Unexcused absences up to one-eighth of the required number of periods shall be allowed. Unexcused absences exceeding one-eighth, but not exceeding one-fourth, may be allowed if at the end of the sesssion the student passes a special examination and satisfies the Director that he has made sufficient progress. Unexcused absences exceeding one-fourth shall disqualify a student. Such students shall be required to take extra gymnasium class work to the satisfaction of the Director, a supplemental course being given in the month of September for this purpose.

5. Excuses will be granted for absences due to participation in Intercollegiate Athletics as follows:—

(*a*) For all fixtures under the jurisdiction of the C.I.A.U.

(*b*) For a maximum of one fixture for each sport not under the jurisdiction of the C.I.A.U. This fixture must be specially approved by the Athletic Board, the names of proposed players being submitted to the Faculty previous to the game. The Faculties concerned may not approve of granting excuses from lectures to any whose academic standing does not warrant such an excuse.

In order to secure exemption from attendance on the above grounds Managers must fill out and certify to the facts on the special forms provided for this purpose and deposit them within seven days at the office of the Department of Physical Education.

6. At regular intervals during each session and also at the end of each session, the Director of Physical Education shall furnish the Dean of each Faculty with a list of students who have failed to meet the attendance requirements as laid down in the ordinary curriculum, or who have proved unsatisfactory in other respects, and such cases shall be dealt with by the respective Faculties.

7. No student in default shall be allowed to proceed to the next year of his course unless for special reasons exemption should be granted on the recommendation of his Faculty and approved by the Committee on Physical Education.

8. Not less than one month before the conferring of degrees in each session the Director shall furnish to the Registrar of the University, for transmission to Corporation and the Faculties concerned, a list of all students, being candidates for degrees at the forthcoming Convocation, who have failed to satisfy the requirements of the Committee on Physical Education, and no Diploma for a degree shall be issued to any such candidate unless by the express direction of Corporation.

V. EXEMPTION

Claims for exemption from the above requirements shall be made in the first instance to the Director, who shall refer them to a sub-committee on exemptions appointed by the Committee on Physical Education.

VI. COLLEGE GROUNDS AND ATHLETICS

The management of the College grounds, all Physical Education, including athletics and sports, is under the control of the Standing Committee on Physical Education. This Committee is responsible for the general maintenance of all University grounds, and retains the ultimate authority and power of supervision in all matters affecting athletics in the University. All matters which may in any way affect athletics must be referred to the Athletic Board, and its approval must be obtained before any departure is made from the authorized routine. The Athletic Board reports to the Committee on Physical Education.

The Athletic Board is responsible for the organization, administration and supervision of the entire athletic programme. The composition of the Board is as follows:—The Principal of the University, Chairman, the Bursar, three members of the teaching staff, three graduates, one of the Stadium guarantors and three undergraduates. The Athletic Manager is Secretary of the Board. Intra-mural and Intercollegiate competitions are conducted in the following sports:—Basketball, Boxing, Wrestling and Fencing, English Rugby, Golf, Gymnastics, Harriers, Hockey, Indoor Baseball, Rugby, Ski-ing and Snowshoeing, Soccer, Swimming and Water Polo, Tennis, Track and Field.

All students of all years must, during the current session and prior to participation in competitive athletics or otherwise engaging in athletic practice or competition, have passed the University medical examination and have received an appropriate category. Those students taking part in Intercollegiate competition must first complete a C.I.A.U. eligibility form for each sport.

All students in good standing who are taking a course of study held to be sufficient by a special committee of the Faculty in which they are enrolled will be allowed to take part in athletics, subject, however, to the general regulation regarding medical examination.

Suspension from lectures for any cause, or absence from more than one-eighth of the total number of lectures given in any course, as shown by the monthly reports furnished to the Dean of each Faculty by the several professors and lecturers, shall be considered as sufficient ground to disqualify a student from engaging in athletic contests.

The managers, coaches and captains of clubs, or other responsible executive officers, are required to insist upon the strict observance of the rule in regard to medical examination and all the rules and regulations of the Committee which concern them.

All clubs must submit their regulations, rules, and by-laws, and any changes in the same, for the approval of the Board. They must make application for the use of such portions of the grounds as they require, and for any special privileges.

During the session and including the Christmas holidays, *all teams and individual students desiring to participate in "outside athletics"** must first apply in writing through the Manager or Coach of the club concerned, who must secure the permission of the Athletic Manager, by whom all such sanctions are granted.

Should any student take part in any athletic contest not having been sanctioned as above, or who is not personally qualified under the regulations regarding eligibility, medical examinations, etc., such students shall be immediately debarred from participation in all University athletics. He shall be reported to the Athletic Board, which body shall, if it sees fit, request the offender to withdraw from the University, if the consent of the Principal has been given, until Corporation shall meet to deal with the matter.

(For further regulations see handbook published by the Athletic Board.)

All students of the University are required to pay a fee of ten dollars ($10.00) for athletics and the use of the grounds (this is included

*Outside athletics is interpreted to mean those forms of athletics over which the Athletic Board of the University or the Canadian Intercollegiate Athletic Union does not have control.

in the general fee of $17.00 paid by undergraduates). The amount so paid is credited to the Athletic Board, and is by this body expended in the interest of College athletics, under the general direction of the Committee on Physical Education. A book of general admission tickets for all home games is furnished to students who pay this fee.

The amount derived as grounds and athletics fees from the students of the Royal Victoria College is placed at the disposal of the Committee on Physical Education, for expenditure in the interest of women students.

VII. HEALTH

Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation, when requisitioned for by the Department, is provided without cost to the student, for seven days only.

A special leaflet concerning this service and the general work of the Department will be supplied to all students at the opening of the session.

VIII. MEDALS

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the Corporation of the University. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean or Registrar of the Faculty to which he belongs, and the medal will not be awarded to any student who may fail in his examination for the degree.

IX. STRATHCONA CERTIFICATE COURSE

The Departments of Education and Physical Education offer the following courses for men undergraduates of the Fourth Year:—

A course of 45 hours on the principles and practice of physical education. The course will cover elementary anatomy, physiology and hygiene, the theory of gymnastics and class teaching.

Students who satisfactorily complete this course are entitled to certificate "B" of the Strathcona Trust.

FOR WOMEN

(ROYAL VICTORIA COLLEGE)

DIRECTOR OF THE DEPARTMENT:—A. S. LAMB.

UNIVERSITY MEDICAL OFFICER:—F. W. HARVEY.

PHYSICAL DIRECTOR FOR WOMEN:—JESSE S. HERRIOTT.

ASST. PHYSICAL DIRECTORS FOR WOMEN:—RUTH HARVEY. ETHEL WAIN. ZERADA SLACK.

Classes in educational gymnastics for all undergraduates of the College and for resident students of music are conducted in the gymnasium of the Royal Victoria College. All students on entering the University are required to pass a physical examination (see regulation on page 543) and are required to pass satisfactory physical tests before taking part in any of the outdoor or indoor physical exercises organized by the Department, whether educational, remedial or recreational.

Work in the Physical Education Department throughout the four-year course (amounting to 140 hours in all) is required of all undergraduate students in the Faculties of Arts and Music.* These periods will be used for instruction in personal hygiene and for educational, remedial and recreative gymnastics, according to the physical requirements of the individual. No student will be asked to do work unsuited to her physique, and students debarred from exercise of any kind will be dealt with separately and carefully advised. Every student is required to wear the costume recommended by the Department.

Classes in Physical Education required of women students in other faculties than the Faculty of Arts are also held in the gymnasium of the Royal Victoria College.

Partial students are admitted to the classes in educational and recreative gymnastics on payment of a fee of $5.00.

Reports of attendance in physical education will be regularly sent to the Faculty.

Strathcona Prizes.—Three first prizes valued at $8, $10 and $12, and three second prizes valued at $5, $6 and $9, are open to students of the Royal Victoria College, for competition in the Second, Third and Fourth Years respectively. Two prizes of $5 are offered for competition to the students of the First Year; one for students who have taken part

* In all cases of absence the student is required to report to the Physical Director for Women. The ordinary interpretation of the one-eighth rule concerning absences does not apply in this Department.

in educational gymnastics at school, and the other for students who have had no previous physical training.

All competitions will be held under the following regulations:—

1. Competitors will be awarded 50 per cent of the marks on the work of the session.

2. No prize shall be awarded unless the judges consider the work up to the standard of 75 per cent.

3. The prizes shall not be awarded in the Second, Third and Fourth Years should the winner fail to obtain her full academic standing. The prizes in the First Year shall not be awarded if the winners fail in more than one subject at the sessional examinations.

4. Competitors will be judged on the work taught in the Physical Education Department during the session, the Physical Director for Women arranging all details concerning the competition. A programme of the competitions will be posted not later than March 1st.

5. Judges for these competitions shall be appointed yearly by the Committee on Physical Education.

STRATHCONA CERTIFICATE COURSE

A course similar to that announced on page 548 is given for the women undergraduates of the Fourth Year.

MILITARY TRAINING

CANADIAN OFFICERS' TRAINING CORPS

HONORARY COLONEL:—GENERAL SIR A. W. CURRIE, G.C.M.G., K.C.B., LL.D.

OFFICER IN COMMAND:—MAJOR J. W. JEAKINS, B.A., ASSISTANT REGISTRAR.

In order to train undergraduates that they may become men fitted to hold His Majesty's Commissions, a contingent of the Canadian Officers' Training Corps was organized at McGill University two years before the Great War. The contingent is a unit of the Active Militia, being governed by special regulations, under which it cannot be called out for active service as a unit.

The training is intended to bring the largest possible number of students up to the standard required for the two certificates:—A, a Lieutenant's, and B, a Captain's. The value of these certificates lies in their showing that the candidates have satisfied a board of regular officers at practical examinations that they have developed properly their powers of command, know how to give orders to other men, can retain their self-possession, and can act promptly on their own initiative in a sudden emergency; and further that they have passed the written examinations, in which they must show a thorough knowledge of topography, how to organize and look after the welfare of men under their command, etc. If a member is recommended for a commission in the Active Militia of Canada, or the corresponding military force in any other part of the Empire, the possession of one of these certificates entitles him to promotion to the rank denoted, as soon as there is a vacancy.

To obtain a Certificate A (Lieutenant's) a member must complete one year's efficient service in the corps, and in the case of Certificate B (Captain's) two years' efficient service, and pass the practical and written examinations, which are held under the auspices of the Imperial and Dominion Governments conjointly, for the whole Empire at the same time. The written papers are set and corrected by military experts in London, England.

To be efficient in a given year (1st August to 1st July), a member must have attended 40 parades if in his first year of service, or 25 parades if in a subsequent year, and must have completed his prescribed course of musketry. The time required is about two hours per week each session, and rifle practice is encouraged. The unit has its own rifle-range and quarters.

Military training is one of the forms of activity recognized as fulfilling the requirements of physical education.

DEPARTMENT OF EXTRA-MURAL RELATIONS

DIRECTOR:—WILFRID BOVEY.

SECRETARY:—CONSTANCE M. HARVEY.

The institution of the Department of Extra-Mural Relations emphasized the desire of the University to keep knowledge of itself and its resources before the community and to fill the needs of the community. The University does not consider that its duty is fulfilled by the provision of education for undergraduate and graduate students; it is prepared to serve industry through scientific research, to serve vocational groups by helping them to raise their standards, to serve the community at large by giving educational facilities to adults through lectures and libraries.

I. EXTRA-MURAL COURSES IN MONTREAL

These courses provide a definite type of adult education. They deal with special subjects in the light of modern thought and knowledge and present in a convenient manner the most recent views and discoveries. It will be noted that some courses are of a popular nature, while some are intended for professional audiences already acquainted with the technical nature of the subject; other than this no preliminary qualification is required and the courses lead to no academic credit.

Places, dates and fees will be announced during the session. Enquiries may at any time be addressed to the Department.

The following courses will be given, provided sufficient students register. Those marked with an asterisk are available outside, as well as in, Montreal:—

*1. **History of Industrial Organization.** Five lectures. Suitable for popular audiences.

Describes the organization of industrial life in the middle ages and how there developed capitalism on the one hand and the pure wage earner on the other. Traces the influence of the industrial revolution and the internationalization of markets and industry, the development of trades unions and the types of organization that have been suggested as likely to conquer the future,—paternalism, scientific management, state socialism, industrial co-operation, guild socialism, syndicalism.

E. R. Adair, M.A., Associate Professor of History

*2. **Chapters in Ancient History.** Eleven lectures. Suitable for teachers, alumni societies, etc.

i & ii. Fore-runners of the Greeks.....Lantern slides. (In Mesopotamia, Egypt and Crete.)
iii. The Greek Polis or City State.
iv & v. How the Greeks Made a Living, 750-432 B.C.
vi. Athenian Political Developments (from the earliest times to the Battle of Salamis).
vii. The Athenian Empire, 479-432 B.C.
viii. Athens and Sparta.
ix. The Beginnings of War.
x & xi. The Peloponnesian War.

(This is offered as a continuous course of eleven lectures, but i and ii could be taken separately; so could iv and v; also iii to ix could be made a continuous course.)

Carleton Stanley, M.A., Associate Professor of Greek.

*3. **Factory Management.** Five lectures. Suitable for minor executives in industry.

Consideration of the various factors that have to be controlled and the means to be used.

J. A. Coote, B.Sc., Assistant Professor of Mechanical Engineering.

*4. **Problems of Employment.** Five lectures. Suitable for minor executives in industry.

Consideration of the problems met with in securing and maintaining an efficient labour force in industry.

J. A. Coote, B.Sc., Assistant Professor of Mechanical Engineering.

*5. **Manufacturing Plant Design.** Six lectures. Suitable for minor executives in industry.

Economic factors affecting location of industries; determining size and location of departments; types of buildings; lighting, heating and ventilation; material handling.

J. A. Coote, B.Sc., Assistant Professor of Mechanical Engineering.

6. **Business Finance and Accounting.** Twenty-eight lectures. Suitable for men who understand double-entry bookkeeping and who wish to fully understand and criticize balance sheets and other financial statements.

Manufacturing, trading, profit and loss, surplus and other statements, balance sheets; capital and revenue; classification of assets, lia-

bilities, etc.; valuation of various classes of assets; depreciation; temporary and permanent investments; goodwill; wasting assets; organization expenses; reserves formed by appropriation of, and by charges against, profits; sinking funds; the corporation; issues and various classes of capital stock; bonus stock; treasury stock; watered stock; bonds and bond discount and premiums.

Criticism of manufacturing, profit and loss and other statements for successive periods; comparative balance sheets and how to read them; current and fixed capital; capital and revenue profits and losses; dividends.

R. R. Thompson, M.C., A.C.A., C.A., Professor of Accountancy, Industrial Organization and Business Organization.

7. **Acoustics of Auditoriums and Sound-Proofing of Offices, Apartments, Etc. Five lectures.** Suitable for popular audiences.

Experimental demonstrations and slides.

H. E. Reilly, M.Sc., Assistant Professor of Physics.

8. **Modern Town Planning.** Ten lectures. Suitable for professional and business men. Illustrated with slides.

i. European Cities of Today.
ii. American Cities of Today.
iii. The Object of Zoning.
iv. Zoning Legislation.
v. The Control of Density of Construction.
vi. Density of Traffic.
vii. Co-ordination of Traffic Within the City.
viii. Suburban Problems in Montreal.
ix. Regional Problems around Montreal.
x. Economics of the Grand Manner.

Percy E. Nobbs, M.A., F.R.I.B.A., R.C.A., Professor of Design.

9. **Physical Education.** Five lectures. Suitable for popular audiences. The organization of physical activities in a small or rural district.

i. Fundamental principles for the selection of activities for different age levels.
ii. Activities suited to kindergarten and primary grades.
iii. Activities suited to intermediate and upper elementary grades.
iv. Activities suited to high school.
v. Social recreation for adults.

Jesse S. Herriott, B.Sc., M.A., Physical Director for Women.

*10. **The Family.** Ten lectures. Suitable for popular audiences.
E. C. Hughes, B.A., Ph.D., Assistant Professor of Sociology.

*11. **The Child in Society.** Ten lectures. Suitable for popular audiences.
E. C. Hughes, B.A., Ph.D., Assistant Professor of Sociology.

*12. **Immigration.** Ten lectures. Suitable for popular audiences.
Carl A. Dawson, B.A., Ph.D., Associate Professor of Sociology and Director of the School for Social Workers.

*13. **The Community, Its Organization and Institutions.** Ten lectures. Suitable for popular audiences.
Carl A. Dawson, B.A., Ph.D., Associate Professor of Sociology and Director of the School for Social Workers.

14. **Introduction to Psychology.** Course intended for beginners.
William D. Tait, B.A., M.A., Ph.D., Professor of Psychology, Chairman of the Department and Director of the Psychological Laboratory.

15. **Vocational and Industrial Psychology.** Suitable for popular audiences.

A study of the important contributions which psychology affords with respect to the adjustments of choosing a vocation and employment.
William D. Tait, B.A., M.A., Ph.D., Professor of Psychology, Chairman of the Department and Director of the Psychological Laboratory.

*16. **How We Grow.** Five or six lectures on the growth of the human body and the disorders of growth. (Illustrated by lantern slides.) Suitable for professional and non-professional audiences.
Ernest Whitnall, M.A., M.D., B.Ch., M.R.C.S., L.R.C.P., Robert Reford Professor of Anatomy.
W. W. Beattie, B.A., M.D., Lecturer in Bacteriology.

*17. **The Nervous System.** Five or six lectures. (Illustrated by lantern slides.) Suitable for professional and non-professional audiences.
Ernest Whitnall, M.A., M.D., B.Ch., M.R.C.S., L.R.C.P., Robert Reford Professor of Anatomy.
W. W. Beattie, B.A., M.D., Lecturer in Bacteriology.

*18. **The Brain and How It Works.** (Illustrated by lantern slides.) Suitable for professional or non-professional audiences.
Ernest Whitnall, M.A., M.D., B.Ch., M.R.C.S., L.R.C.P., Robert Reford Professor of Anatomy.
W. W. Beattie, B.A., M.D., Lecturer in Bacteriology.

19. **X-rays.** Six lectures. Suitable for professional and popular audiences. (Illustrated.)

i. Historical and recent advances.
ii. Physics of X-rays.
iii. Medical applications.
iv. Surgical applications.
v. Treatment with X-rays—superficial diseases.
vi. Treatment with X-rays—deep diseases.

A. Howard Pirie, M.D., B.Sc., M.B., Ch.B., Lecturer in Radiology.

*20. **Bacterial Content of Natural Water.** Five lectures. (Illustrated.) Suitable for engineers interested in public water supply.

Influences affecting bacteria in water, relation of sewage and soil to water, bacterial indication of pollution, water analyses and their interpretation.

F. C. Harrison, D.Sc., F.R.S.C., Professor of Bacteriology.

*21. **Milk Supply.** Five to ten lectures. (Illustrated.) Suitable for doctors and others interested in milk supply.

The bacterial contamination of milk, effect of temperature on milk, pasteurization, method of examining and controlling milk supplies, milk as a vehicle in the conveyance of disease, milk drinks, the fermentations of milk.

F. C. Harrison, D.Sc., F.R.S.C., Professor of Bacteriology.

*22. **The Bacteriology of Food.** (Illustrated.) For housekeepers and those interested in the food they prepare and eat.

The bacteriology of food:—Water, milk, meat, fish, bread, drinks, canned foods, etc.

F. C. Harrison, D.Sc., F.R.S.C., Professor of Bacteriology.

*23. **Biological Science.** Five lectures. (Illustrated.) Suitable for popular or technical audiences.

i. Carnivorous plants.
ii. The feeding habits of a microscopic animal.
iii. The cutting off of offending members.
iv. The banana.
v. Rubber, its growth, cultivation and preparation.

Francis E. Lloyd, M.A., F.R.S.C., F.L.S., Macdonald Professor of Botany and Director of the Biological Building.

24. **Marine Zoology.** Five lectures. (Illustrated.) Suitable for popular audiences.

i. Age of life in the sea.
ii. Zones of marine life.

iii. Classification of sea-animals.
iv. Distribution of sea-animals.
v. The interdependence of sea-animals.

Arthur Willey, M.A., D.Sc., F.R.S., Strathcona Professor of Zoology.

*25. **The Living World.** Ten lectures. (Illustrated.) Suitable for popular audiences.

i. The Dawn of Life.
ii. Life's Infinite Variety.
iii. Reproduction and Development.
iv. Heredity.
v. The Physical Basis of Heredity.
vi. The Inheritance or Non-Inheritance of the Effects of Environment.
vii. Natural Selection and the Survival of the Fittest.
viii. Evidences of Evolution.
ix. Evidences of Evolution (continued).
x. The Hope of Betterment.

Carrie M. Derick, M.A., Professor of Comparative Morphology and Genetics.

*26. **Four Great Scientists and Their Theories.** Four lectures. (Illustrated.) Suitable for popular audiences.

i. Lamarck.
ii. Darwin.
iii. de Vries.
iv. Mendel.

Carrie M. Derick, M.A., Professor of Comparative Morphology and Genetics.

*27. **Wonders of the Plant World.** Five lectures for children and grown-ups. (Illustrated.)

i. How plants feed.
ii. Flowers and their insect visitors.
iii. The story of an apple.
iv. Plants on their travels.
v. Water plants and desert plants.

Carrie M. Derick, M.A., Professor of Comparative Morphology and Genetics.

28. **Children's Reading.** Six lectures. Suitable for popular audiences.

i. Reading in the life of the modern child.
ii. Books which will appeal to children's interests.
iii. Modern children's books.

iv. Some standard favourites.
v. Stories for boys and girls.
vi. Other popular books—travel, history, biography.

Mary Duncan Carter, Ph.B., B.L.S., Assistant Professor of Library Administration.

29. **Choosing Books.** Six lectures. Suitable for popular audiences.

i. Some principles of book selection.
ii. Some principles of book selection.
iii. Fiction.
iv. History and travel.
v. Biography and reminiscences.
vi. Poetry and drama.

Mary Duncan Carter, Ph.B., B.L.S., Assistant Professor of Library Administration.

30. **Literary Pilgrimages.** Six lectures. (Illustrated.) Suitable for popular audiences.

i. Chaucer and Canterbury.
ii. Shakespeare's country.
iii. The land of Dickens.
iv. The lake district and its literary associations.
v. A literary pilgrimage in Scotland.
vi. In the footsteps of Robert Louis Stevenson.

Gerhard Lomer, M.A., Ph.D., Professor of Library Administration.

31. **History of the Book.** Ten lectures. Suitable for popular audiences. (Illustrated.)

i. Primitive and Indian records.
ii. The writings of the Egyptians.
iii. The records of Babylonia and Assyria.
iv. The Manuscripts of the Greeks and Romans.
v. The work of the mediæval monk.
vi. The work of the mediæval monk.
vii. Paper and printing in China.
viii. The story of printing in Europe.
ix. The story of binding.
x. The history of libraries.

Gerhard Lomer, M.A., Ph.D., Professor of Library Administration.

32. **Some Musical By-Ways.** Five lectures. (Illustrated with piano and songs.) Suitable for clubs, church audiences, etc.

i. Music at the court of Queen Elizabeth.
ii. The songs of Shakespeare.
iii. The Beggar's Opera.
iv. Folk songs.
v. Sea chanties.

A. E. Whitehead, Mus. Doc., F.R.C.O., Instructor in Organ and Lecturer in Theoretical Subjects.

*33. **Instrumental Music from the 17th Century to the Present Day.** Seven lectures. Suitable for popular audiences. (Illustrated by slides and piano.)

i. Keyboard music in England.
ii. French clavecin music.
iii. Italian music for the clavichord or harpsichord.
iv. Instrumental music in the form of suites.
v. Instrumental music in the form of sonatas.
vi. Music of the "romantic" order.
vii. Music of the present day.

H. C. Perrin, Mus. Doc., Dean of the Faculty of Music and Professor of Music.

34. **Beginners' Course in Spanish.** Twenty-five lectures.

Lectures to aid business men who have an interest in South and Central America and in American trade, also to aid students desirous of pursuing Spanish studies at the University, or of matriculating in Spanish.

R. M. Sugars, M.A., A.I.A., Director-Secretary of the School of Commerce and Associate Professor of Spanish.

II. COURSES IN PREPARATION FOR THE EXAMINATIONS OF PROFESSIONAL INSTITUTES AND SPECIAL COURSES FOR THE MEMBERS OF SUCH INSTITUTES

(1) Chartered Institute of Secretaries. Special course for members:—

(a) Vocational and Industrial Psychology. A study of the important contributions which psychology affords with respect to the adjustments of choosing a vocation and employment.

Lecturer.....William D. Tait, B.A., M.A., Ph.D., Professor of Psychology, Chairman of the Department and Director of the Psychological Laboratory.

(b) Canadian Economic Problems. A study of various live questions affecting the Dominion of Canada, such as the St. Lawrence Waterways.

Lecturers.....Members of the Department of Economics and Political Science, McGill University.

(c) Business Finance and Accounting. The course will cover the following:—Manufacturing, trading, profit and loss, surplus and other statements and balance sheets; capital and revenue; classification of assets, liabilities, etc.; valuation of various classes of assets; depreciation; temporary and permanent investments; goodwill; wasting assets; organization expenses; reserves formed by appropriation of, and by charges against, profits; sinking funds; the corporation; issue and various classes of capital stock; bonus stock; treasury stock; watered stock; bonds and bond discount and premiums.

Criticism of manufacturing, profit and loss and other statements for successive periods; comparative balance sheets and how to read them; current and fixed capital; capital and revenue profits and losses; dividends.

Lecturers.....R. R. Thompson, M.C., A.C.A., C.A., Professor of Accountancy, Industrial Organization and Business Organization.

(2) Canadian Credit Institute. Course in preparation for examinations conducted by the Institute.

III. EDUCATIONAL LECTURES

1. **Lyceum Lectures,** *i.e.,* lectures on subjects of general interest offered in the Province of Quebec and neighbouring districts under the following arrangements:—

Local committees, schools or other authorities may select subjects from the list offered and indicate the day or days on which they would like the lectures given. Booklet containing list of lectures may be obtained on application to the department.

Lectures will be provided during the periods from November 1st to December 15th, and January 7th to April 1st.

Local committees outside Montreal will be asked to bear the travelling expenses of the lecturer and the cost of entertainment during his visit. In the case of illustrated lectures, if the local committee cannot provide a lantern, they will be asked to pay a fee of $5.00 to cover the cost of rental and transportation of a lantern from Montreal. The University pays the lecturers' fees.

In the cities of Montreal, Westmount, Outremont and Verdun a charge of $15 will be made to assist in meeting expenses.

2. **Lantern Lectures and Sets of Slides.** A number of manuscript lectures accompanied by slides and sets of slides without lectures are available in accordance with the terms of the department and may be obtained on application. At least a fortnight's notice should be given when slides are required.

Slides with lectures—Subjects.

1. Newfoundland and Labrador.
2. The River and Gulf of the St. Lawrence.
3. Lakes Erie and Ontario.
4. Lakes Huron and Superior.
5. The Yellowstone National Park.
6. British Columbia and Alberta.
7. Central California, San Francisco and the Yosemite.
8. The Hawaiian Islands.

   (a) The geographical situation; topography of the ocean bottom, oceanic currents, physical features, types of the Hawaiians, native industries and foods, the sugar industry, the native flora.

   (b) Ethnology, physical features, native industries, the flora and volcanic formation, showing volcanoes in eruption.

9. Jamaica and Porto Rico.
10. Paris.
11. Italy.
12. Egypt.
13. Forestry.
14. The Waterways of Canada.
15. The Wood-pulp Industry of Canada.
16. The History and Production of Tea.
17. Mosquitoes and other insects in relation to the distribution of disease.
18. } Canada from East to West.
19. }
20. Life of St. Paul.
21. The Bible in the Making.
22. Bread Making.
23. The Resources of Saskatchewan.
24. The Resources of Alberta.
25. The Pulp and Paper Industry of Canada.
26. The Newer Commercial Canada, or Canada and the Twentieth Century.
27. Canadian Scenery and Recreation.
28. Canada's Arable Lands and Agricultural Developments.

29. A Round the World Cruise.
30. A Mediterranean Cruise.
31. To Europe.
32. To the Far East.
33. A West Indies Cruise.
34. Legends of the St. Lawrence (one month's notice).

Slides without lectures—Subjects.

	Number of slides.
McGill University	78
Medical History Series	35
Portraits, caricatures	22
Alhambra—Cordova	11
Architecture	44
Autographs	7
Cambridge—Oxford	10
Canada	16
Cathedrals	171
Celebrated pictures and sculptures	63
Chaucer and Spenser	31
Dante, Boccaccio, Petrarch	30
Details of Interiors	5
Devonshire—especially Dartmoor	136
Diamond Jubilee	15
Drama	8
England—especially early	62
English Buildings	37
Exeter (including cathedral)	123
France—cathedrals and castles	62
Greek Art	19
Italy—Rome, Florence and Ravenna	56
Keltic—Runic letters, early printing and manuscripts	49
Lake District—especially Wordsworth	106
Old London—the Thames	23
Phonetics	32
Portraits of Celebrities	66
Pre-historic remains	10
Reign of Queen Elizabeth	33
Religious Orders	8
Scotland—Dumfries	17
Shakespeare	17
Switzerland—Tyrol	13

IV. SPECIAL FACILITIES PROVIDED WITHIN THE UNIVERSITY TO MEET THE NEEDS OF VARIOUS COMMUNITY GROUPS OR INDUSTRIES

The value of research in all subjects is now generally recognized. Whether the question involved be some technical difficulty in manufacturing or a problem of employment or hygiene, the staff of the University is ready and willing to deal with it and to give all the assistance possible. It is one of the duties of the Department of Extra-Mural Relations to promote such co-operation and to put inquirers in touch with the proper authorities at McGill.

V. UNIVERSITY PUBLICITY

Descriptive articles, pamphlets and photographs are published from time to time by the department and copies, when available, may be had on application.

THE LIBRARY SCHOOL

Plans for a sessional Library School at McGill University were made in the spring of 1904 by Mr. C. H. Gould, then Librarian, in consultation with Dr. Melvil Dewey, Director of the New York State Library School at Albany. In order to lose no time, a Summer Course was provided for that year, thus constituting the first library school in Canada. Owing to limited funds, the Winter Course could not then be provided, and the Summer Course was repeated in 1905-1911, 1913-1914, 1920-1924, 1926, and 1927. In 1928 the Summer Course became a regular part of the Library School which will continue to offer a six weeks' course of approved training for library assistants and librarians in small libraries.

In 1921 the University Librarian again proposed the establishment of a sessional course, and this was approved by Corporation in the same year and by the Governors early in 1922. The realization of these plans was made possible by the co-operation of the Carnegie Corporation with McGill University, and the first Winter Course under the auspices of a Canadian university opened in October, 1927. It has been provisionally accredited as a Junior Undergraduate Library School by the Board of Education for Librarianship of the American Library Association. The School offers special advantages and opportunities in training for special libraries and for college and university libraries, as it is situated in a large city which provides examples of libraries of all types and is part of a university with a recognized high standard of scholarship.

REQUIREMENTS FOR ADMISSION

1. Applicants for admission to the course leading to the certificate of the Library School must offer a minimum of one year of work acceptable for admission to the Sophomore class of an approved college or university, evidenced by a transcript of the college record.

2. Applicants must have had two months of satisfactory general experience in an approved library or its equivalent.

3. Candidates must satisfy the Director of the School that they possess aptitude and personal qualifications necessary in library work.

4. The School reserves the right to refuse to admit an applicant who meets the first two requirements, but fails in the third; and the right to admit applicants who do not meet the first two requirements but can show, by means of an entrance examination, that they can carry the work without lowering the standard of instruction.

5. Applicants over thirty-five years of age are not encouraged to enter the School.

6. Qualified students who are not candidates for the certificate may be admitted to individual courses as partial students.

7. Teachers and qualified persons may attend the special lectures.

8. Students must offer one year's work in a foreign language, or must take such a course in addition to the Library School curriculum.

Ability to use a typewriter is a valuable part of the equipment of a library assistant, and students are encouraged to provide themselves with a portable typewriter.

PARTIAL STUDENTS

A limited number of partial students may be admitted to courses each year. Before registration such students must satisfy the School of their ability to follow the courses selected and they must fulfil all requirements of classroom work and tests prescribed for regular students in these courses. A certificate of attendance may be obtained on application to the Registrar of the University, on payment of the required fee; but no certificates shall be given for attendance at lectures unless the corresponding examinations have been passed.

REGISTRATION AND ATTENDANCE

REGISTRATION

1. Students in the Library School are required to present themselves at the office of the School some time during the seven week-days' preceding the commencement of lectures, in order to furnish the information necessary for the University records, and to register for the particular courses which they wish to attend.

2. Upon registering each student will be given cards of admission to the courses registered for, on presentation of which to the several instructors, his name will be entered on the class registers, or notification will be sent to the instructors, as may be found most convenient.

ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.

2. Excuses on the ground of illness or domestic affliction shall be dealt with only by the Director of the School. Medical certificates covering absences must be presented by the student immediately after his return.

3. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course shall not be permitted to take the regular examination in that course, and those whose unexcused absences in such

a course shall exceed one-fourth of the total number of lectures must repeat the work in that course for credit.

4. A record shall be kept by each professor or instructor in which the presence or absence of students shall be noted.

5. Lectures will begin promptly on the hour and will end ten minutes before the next hour.

SCHOLARSHIP AND PRIZES

1. The Ethelwyn M. Crossley Scholarship Fund is available for women students. Details may be obtained on application to the Secretary of the School.

2. Book prizes are given to the most efficient student in the courses on Library Administration, The History of the Book, Children's Reading, Cataloguing, and Reference Work.

PHYSICAL EXAMINATION

1. In order to promote as far as possible the physical welfare of students, the University requires those attending for the first time to pass a physical examination to be conducted by, or under the direction of, the Director of the Department of Physical Education, or by a recognized representative. The hours for this examination will be announced at registration.

2. Students who do not present themselves for this examination (or otherwise satisfy the Director of the Department of Physical Education) before November 1st, will not be allowed to attend the University.

3. In accordance with the regulations of the Provincial Board of Health, all students (both those entering the University as well as those previously enrolled) will, at the time of registration for the session 1928-29, be required to show a certificate of succesful vaccination within the past seven years or of insusceptibility to vaccine within five years, and no student will be allowed to attend the University until such a certificate is presented.

4. Provision is made by the Department for the care of the health of undergraduate students during the session. Hospital accommodation is provided for seven days only.

FEES AND EXPENSES

Fees are due and payable to the Bursar at his office on October 10th only, but will also be received before October 1st. After October

15th or February 1st (in the case of those who pay by instalments) an additional fee of $2.00 will be exacted of all students in default.

FEES

Fee for the Library Course (including the use of the Library, and School Certificate)	$150.00
By instalments:	
First instalment, if paid before October 15th	77.00
Second instalment, if paid before February 1st	77.00
Fee for partial students, per point, in required courses	15.00
Fee for partial students, per point, in elective courses	12.50
Fee for Binding Course (First Term) for partial students	30.00
Library fee for partial students taking less than two points, unless registered at McGill	4.00
Fee for each supplemental examination	5.00
Certificate for partial students	1.00
Fee for Summer Course	60.00

Immediately after October 15th (or February 1st, in the case of students who pay by instalments), the Bursar will send to the Director of the School a list of registered students who have not paid their fees. Such students cannot be re-admitted to classes except on presentation of a receipt from the Bursar certifying to the payment of the necessary fees.

CAUTION MONEY

Every student is required to deposit with the Bursar the sum of $5.00 as Caution Money to cover damage done to furniture, books, apparatus, etc. This amount, less deduction (if any), will be refunded at the end of the session.

FIELD WORK

The Library School trip to New York in March is a required part of the Library Course, and students should allow a minimum of $75.00 for this purpose.

TEXT-BOOKS AND MATERIALS

Students should allow approximately $35.00 for text-books, blank forms, cataloguing cards, and other library supplies needed during the

session. These may be purchased at cost from the Secretary of the School. Portable typewriters may be rented, for use in the School only, at the rate of $1.00 per month.

BOARD AND RESIDENCE

Information about boarding and lodging houses may be obtained on application to the Secretary of the School. Accommodation can be obtained in private houses in the vicinity of the Library at a cost of $60.00 and upwards per month; or, separately, board at $45.00 to $55.00 per month, and rooms from $15.00 to $20.00 per month. Men students can obtain board at the McGill Union at low rates, either in the dining room or at the lunch counter.

CLUBS AND SOCIETIES

Women students of the School are eligible for membership in the Monteregian Club, 3426 McTavish Street, and, if University graduates, in the University Women's Club, 3492 Peel Street.

Membership in the McGill Women Students' Society, and subsidiary societies, is open to women students of the Library School on payment of a fee of $2.50. An additional fee of $1.50 for the *McGill Daily* and of $3.00 for athletics and the use of athletic grounds is optional.

PRELIMINARY READING

Students who wish to prepare themselves during the preceding summer for the winter's work may obtain, on application to the Secretary of the School, a list of suggested books for professional reading.

LIBRARY VISITS

The lectures and practice work of the School are supplemented and illustrated by required professional visits and reports.

(*a*) Visits to libraries, binderies, book shops, museums, and printing establishments in Montreal and its neighbourhood.

(*b*) A week's visit, under the direction of members of the Staff, to similar institutions in New York and adjacent cities.

COURSE OF STUDY

The numbers in right-hand columns represent the hours per week. Students must choose electives to make up at least 15 hours per week each term.

Course Numbers	I.—REQUIRED COURSES	First Term	Second Term
1– 2	Cataloguing and Classification	4	2
3– 4	Reference Work and Bibliography	3	3
5– 6	Book Selection	2	2
7–	Trade Bibliography and Orders	1	—
– 8	Circulation, Publicity and Extension	—	1
9–10	Organization and Administration of Libraries	2	2
11–12	Field Work, Observation, and Visits	1	1
		13	11
	II.—ELECTIVE COURSES		
13–	History of Books and Libraries	2	—
15–16	Children's Reading	1	1
–18	Story Telling for Children	—	1
19–	Library Work with Children	1	—
–20	School Libraries	—	1
21–22	Special Libraries	1	1
–24	College and University Libraries	—	1
–26	Indexing and Filing	—	1
27–	Binding	1	—
–28	Advanced Classification	—	2
		6	8

DESCRIPTION OF COURSES

1-2. Cataloguing and Classification.

Four points, first term; two points, second term....Miss Herdman.

The aim of the course is to teach the students to be thoroughly familiar and conversant with the principles of classification and cataloguing (including subject headings); how to think out their classification problems logically and independently; and how to arrive at accurate decisions. It is also to drill them in the form of the unit card and the actual procedure of a catalogue department; to teach them familiarity and skill in the use of books which are necessary tools used in the actual practice of the classification and cataloguing of books. In the second term are taken up the special problems of cataloguing and the more complicated problems of classification.

The students become thoroughly conversant with Dewey's and Cutter's classifications, the A.L.A. Catalogue Rules, and the A.L.A. and Sears Subject Headings, and each student completes a catalogue of from 200 to 400 books which illustrates the usual and special problems of classification and cataloguing and serves as the basis for practical problems in indexing and filing.

In the class work definitions of terms, and the meanings and significance of subjects are reviewed, so that the work can be intelligently done, and in the laboratory work the individual problems of each student are worked out with the student.

3-4. Reference Work and Bibliography.

Three points, each term..... ————————————, Instructor.

The work of this course consists of a careful and minute study of the standard books of reference in English, French, and German, as regards author's name and record, publisher, edition and date, the scope and special features, limitations, arrangements and indexes, as well as the kind of articles included.

Dictionaries, including biographical dictionaries, encyclopedias, periodical indexes, some annuals and debaters' tools are subjects of discussion during the first term. Many special subjects, *i.e.*, art, music, geography, history, literature, and other topics, as well as a study of government documents and their indexes, are considered in the second term.

The course is designed to acquaint the students with all the reference tools through the use of which they may aid the readers of a library in finding both simple and elusive material, as far as the resources of the library will allow. No small part of the work is the instruction in the administration of the department, and in the selection of a working

collection of reference books, as well as the consideration of a proper arrangement of reference material to aid in the dispensing of prompt and accurate service.

In addition, students will be taught how to prepare a practical bibliography and will be made familiar with the outstanding bibliographies in particular subjects, under the direction of specialists. The practical use of bibliographies in library work is emphasized in lectures and by assigned readings.

Class work consists of a careful study of Mudge's New Guide to Reference Books, with discussions, and lectures on additional material not included there. Readings on topics of special interest and problems based on the reference books are assigned for outside study.

5–6. Book Selection.

Two points, each term.....Professor Carter.

The purpose of the course is to train students in the ability to select books for different types of libraries and readers, by interpreting community needs and interests in terms of the most helpful and interesting books. In order to obtain the necessary skill to perform these functions, the course includes principles of book selection; book aids, their characteristics and use; increased knowledge of books and their publishers from the library viewpoint, each class of books being considered with regard to the libraries to which it is best suited; and annotations for librarians and readers. These objectives are achieved by lectures, reading reports, problems, and discussion.

Text:—Bessie Graham, The Bookman's Manual.

7. Trade Bibliography and Orders.

One point, first term.....Dr. Lomer and ————————

A study of the bibliographical equipment necessary in ordering books and periodicals, English, American, and foreign; the use of catalogues and trade lists; the equipment and administration of the order department; funds, invoices, and accounts; the recording of gifts; book-buying policy; problems and practice.

8. Circulation, Publicity, and Extension.

One point, second term..... ————————, Instructor.

The organization of the circulation department, the equipment of the loan desk, and a comparative study of the different methods of charging books, with practice.

9–10. Organization and Administration of Libraries.

Two points, each term.....Dr. Lomer and Special Lecturers.

Relation of the library to other educational organizations; elements of library administration of various types of libraries; library legislation; business and ethics of librarianship; library work in connection with museums and exhibitions; relation of librarian and trustees; committees and committee meetings; library buildings and equipment; supplies and stock; the budget, distribution of funds, accounts, minutes, reports and statistics; library extension, travelling libraries, inter-library loans, branches, stations, etc.; inventory and checking stock; interrelation of departments and economical routine.

11-12. Field Work, Observation, and Visits.

One point, each term.....

As all instruction is given with a view to its application in professional service, it is essential that students have sufficient opportunity for practical work. The School affords this in three ways:

1. The problems and laboratory work involved in the technical courses provide, at the rate of two hours for every lecture, the conditions necessary for the practical application of the principles and methods taught.
2. Field work in the second term provides an opportunity for wider observation, comparison of libraries and their methods, and actual practice in the routine of library work where the pace is set by experienced workers. A programme of conducted visits to other libraries, including a week's visit to New York and vicinity, is planned for the second term as a required part of the course. This aims to give the student an opportunity to observe the practical applications of subjects taught.
3. Two weeks of practical work under supervision is planned to take place in May, in order that the student may acquire an appreciation of library work as a whole.

13. History of Books and Libraries.

Two points, first term.....Dr. Lomer.

A course of lectures, fully illustrated by lantern slides and exhibits, dealing with the development of the arts of record from pre-historic times to the present day. The production and care of manuscripts and books in classical, medieval, and modern times will be considered, and a brief sketch will be given of the origin and development of printing in China and in Europe. The lectures are supplemented by outlines, readings, and an essay.

15–16. Children's Reading.

One point, each term.....Professor Carter.

The aim of the course is to develop an approach to children's literature through a consideration of children's interests and activities; to become acquainted with the classics suited to children as well as with recent children's books; and to suggest methods of presenting literature which children will enjoy and, at the same time, develop their ability to appreciate good books.

This is accomplished by means of lectures on child psychology, aids to the selection of children's books and illustrators of children's books, as well as by the reading and presenting of different types of books which are always considered from the viewpoint of inclusion in a children's library.

18. Story Telling for Children.

One point, second term.....Professor Carter.

A study of source material from which stories may be selected and adapted for children of varying interests and ages. Practical work in selecting cycles of stories for older children and in telling these stories. Attention is given to methods of selection, learning, and presentation.

19. Library Work with Children.

One point, first term.....Professor Carter.

Consideration is given to the aims of library work with children; to make good books available to all the children of a community; to train boys and girls to use the library with discrimination; and to build character and develop literary taste through the medium of good books and the influence of the children's librarian, and the best way in which these aims may be accomplished.

How to stimulate interest in the organization of a children's library; the qualifications of a children's librarian; equipment and administration of children's rooms; personal work with children and the way in which environment, social differences and background affect children in relation to their reading. Lectures, problems, discussions, surveys.

20. School Libraries.

One point, second term..... ————————, Instructor.

The organization of libraries in schools of various types is brought out by means of lectures and discussion. The relationship of libraries to modern education is always kept in view. The work of the high school library is especially considered from the standpoint of its history; the present standards; types of libraries; the physical plant; financial aspects; staff-qualifications, duties, etc.; co-operation with departments of the school; special problems, such as discipline, fines, etc.; and, finally, the selection of library material.

21–22. Special Libraries.

One point, each term.....Professor Carter and Special Lecturers.

Since it is generally realized that, although the fundamentals of library service may be the same in general and special libraries, there are certain differences in method and viewpoint, the object of the course is to point out specific differences, and to give some idea of the scope of special library work.

During the first term, a survey of the special library field is presented in order to give the student some idea of the function of special libraries in the daily work of the world. Several of these lectures are given by authorities in their fields.

The aim of the course in the second term is to show how methods learned in the general library course may be applied to special library problems. Lectures, visits, problems.

24. College and University Libraries.

One point, second term.....Dr. Lomer and Professor Carter.

This course is designed for those, preferably college graduates, who wish to specialize in work in college and university libraries. The application of processes common to other libraries will be reviewed and emphasis will be laid upon the place of the library in university education and administration, the selection of books, the apportionment of funds, the problems of departmental libraries, reference work, reserved books, graduate research, the use of the stack, and instruction in the use of the library.

26. Indexing and Filing.

One point, second term.....Miss Herdman.

The principles of alphabetic, numerical, geographic, subject, and classified filing; analyses of filing conditions; central files, and organization; and the basis of choice of filing system for material to be filed; with some work in the principles of indexing; all of which is given practical application in problems.

27. Binding.

One point, first term...Dr. Lomer, Mr. Beaudoin and Mr. Carignan.

A practical apprentice course in the fundamentals of binding. Lectures on paper, binding materials, binding records and routine and practical work, including the making of booklets, scrapbooks, blotters, boxes, and such processes as the cutting of materials, sewing, forwarding, and casing.

Saturday mornings, 9-12. This course will not be given unless a sufficient number of students register. A fee of $5.00 will be required to cover necessary materials. Fee for partial students, $30.00.

Text-book:—E. W. Palmer. A course in bookbinding for vocational training; 1928.

28. Advanced Classification.

Two points, second term.....Miss Herdman.

The principles of classification, the history of their development, and their application in the Dewey, Bruxelles, Cutter, Library of Congress, and Brown classifications.

TIME TABLE—FIRST TERM

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-10	Cataloguing	Cataloguing		Cataloguing	Cataloguing	Binding
10-11	Trade bibliography and orders	Administration	History of Books and Libraries	Administration	History of Books and Libraries	Binding
11-12	Reference	Book Selection	Reference	Reference	Book Selection	Binding
12-2						
2-3	Cataloguing Laboratory	Cataloguing Laboratory	Practice Work	Cataloguing Laboratory	Cataloguing Laboratory	
3- 4	Cataloguing Laboratory	Cataloguing Laboratory	Practice Work	Cataloguing Laboratory	Cataloguing Laboratory	
4- 5	Children's Reading		Practice Work		Library Work with Children	
5- 6			Special Libraries			

TIME TABLE—SECOND TERM

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-10	Classification (Advanced)	Cataloguing	Circulation	Classification (Advanced)	Cataloguing	Observation and visits
10-11	Indexing and Filing	Administration	College and University Libraries	Administration		Observation and visits
11-12	Reference	Book Selection	Reference	Reference	Book Selection	Observation and visits
12- 2						
2- 3		Cataloguing Laboratory			Cataloguing Laboratory	
3- 4		Cataloguing Laboratory			Cataloguing Laboratory	
4- 5	Children's Reading				School Libraries	
5- 6	Story Telling		Special Libraries			

SUMMER SESSION

The McGill University Library School offers a six weeks' course in general library methods, beginning about the first of July and continuing for six weeks.

The course is designed to prepare librarians for small libraries or assistants for larger libraries, and it fulfils the requirements and embodies the course of training approved by the Board of Education for Librarianship of the American Library Association, by which the Summer Course has been accredited.

The Library School, the oldest of its kind in Canada, will hold its sessions in a portion of the University Library which has been specially equipped for the purpose, and includes a lecture room, with stereopticon and refractoscope, and two study rooms for students, equipped with individual desks. In addition to the Library School collection of books, students have access to the stacks of the University Library, a fine limestone building of Romanesque style, situated on the campus and containing, with the departmental libraries, over 300,000 volumes. There is a Library Museum containing an exhibition illustrating the historical development of the book; and special exhibits are arranged in connection with the course.

COURSE OF STUDY

GROUP I.

Cataloguing, Classification, and Subject Headings.

Thirty Lectures ..... Miss Bethune.

A simplified course aiming to meet the needs of the school and the small public library. Instruction in the principles of dictionary cataloguing is given by means of lectures and supervised laboratory work. The assigning of subject headings is also taught. The fundamental principles of classification form a basis for the practical application of the Dewey Decimal and Cutter Expansive systems. Some attention is given to the ordering and use of Library of Congress printed catalogue cards, the assigning of book-numbers from the Cutter-Sanborn author tables, shelf-listing, alphabeting, and filing. These various processes will be correlated in order to give the students practice in planning the full cataloguing of a book.

Two fifty-minute laboratory periods per lecture hour are a required part of the course.

Students who can are urged to type their catalogue cards. Use of Library School typewriters may be had for $2.00 for the session.

GROUP II.

Book Selection.

Twelve Lectures.....Mrs. Carter.

Approach to this subject is made through the underlying principles of selection and a consideration of various classes of books (travel, history, biography, poetry, drama, and fiction). Practice in using printed aids to assist selection, in writing booknotes, and selecting books for different types of readers, is given. Lectures, reports, problems.

Subject Bibliography.

Four Lectures.....Mrs. Carter.

A general consideration of the more important Canadian, English, French, and American publications in this field which are used in the average small public library. Correct bibliographic form is emphasized in the compilation of a list of books and periodical articles on some particular subject.

Children's Literature.

Six Lectures.....Mrs. Carter.

Principles of book selection as applied to children of varying ages and interests; story-telling; administration of the children's room.

Trade Bibliography and Ordering.

Four Lectures.....Miss Welch.

Instruction is given in the use of the ordinary bibliographic equipment necessary in ordering books and periodicals. The making of order cards and the routine of ordering are explained. Practical problems are assigned.

GROUP III.

Reference Work.

Twelve Lectures.....Miss Welch.

The work of the reference course is the study and use of the outstanding reference books. Lectures are given and practical problems assigned. The consideration covers such subjects as dictionaries, encyclopedias, periodical indexes, biography, history, geography, literature, etc.

GROUP IV.

Organization and Administration of Libraries.

Six Lectures.....Dr. Lomer.

An elementary consideration of administration from the point of view of the small library, including committees and relations of trustees

and librarians, the business and ethics of librarianship, the supervision of buildings and staff, the preparation of annual budgets, statistics and reports, and library exhibits.

Problems and Methods of Library Management.

Ten Lectures ..... Special Lecturers.

This course considers special phases of library work and is planned as an elementary introduction to aspects of library management which are considered more in detail in the sessional course. The chief topics considered are:

1. **Library Buildings and Equipment.**

   Two Lectures ..... Mr. Turner.

   A consideration of the fundamental principles of the construction of small libraries, with special attention to heating, ventilation, lighting, and the arrangement of the stack and a consideration of the essential equipment of a small library.

2. **Publicity and Extension.**

   Two Lectures ..... Miss Welch.

   Methods of publicity as aids to help advertise the value of the library will be stressed, and ways and means of extending library service will be considered. The assignments will consist of readings.

3. **Loans and Stack Administration.**

   Two Lectures ..... Miss Young.

   A consideration of charging systems with their application to the needs of the small library and to school and college libraries. The arrangement of books in the stacks, checking the shelves, and the rearrangement of classes will also be considered, as well as the general care of books.

4. **Binding and Repairs.**

   Two Lectures ..... Miss Hunter.

   The principal materials and processes of binding will be considered from the point of view of their practical application and cost. The routine of the binding department will also be considered and practice in elementary repairs will be supplemented by a visit to local binderies.

5. **Periodicals and Serials.**

   Two Lectures ..... Miss Haultain and Miss Howard.

   The recording and arrangement of periodicals and serials will be explained, as well as the equipment and management of a periodical reading room.

Special Libraries or School Libraries.

These courses are elective, and students are required to select one.

1. **School Libraries.**

Six Lectures .....Miss Welch.

Place and function of the school library in relation to curriculum; the high school library; instruction of students in the use of the library; standards for the school library and its equipment.

2. **Special Libraries.**

Six Lectures .....Special Lecturers.

The organization of special libraries (Mrs. Carter); College and university libraries (Dr. Lomer); Medical libraries (Dr. Wylde); Phases of public library work (Miss Saxe); Business libraries (Mrs. Carter); Travelling libraries (Miss Hall).

EXCURSIONS

Saturday mornings will be devoted to the following excursions, which are a required part of the course: (1) Art Association of Montreal, 679 Sherbrooke Street West; (2) Art Book Binding and Loose Leaf Company, 1a Demontigny Street East; (3) Bibliothèque Saint-Sulpice, 1700 St. Denis Street; (4) Fraser Institute Free Public Library, 359 Dorchester Street West; (5) Mechanics' Institute of Montreal, 890 Atwater Avenue; (6) Medical Library, McGill University, University Street; (7) Public Library of the City of Montreal, 630 Sherbrooke Street East; (8) Westmount Public Library, Westmount Park.

APPLICATIONS FOR ADMISSION

Applicants for admission to the course should be high school graduates with aptitude and personal qualifications for library work and should give evidence of ability to pursue the course profitably. Assistants already engaged in library work or applicants with a definite appointment to a library position are preferred, as the number of students is limited. The Library School gives a certificate to those who have successfully completed the course, but this implies no university credit, and the School does not guarantee positions to students.

FEES

The fee for the course is $60.00, payable in advance at the Bursar's Office.

Students may rent portable typewriters and obtain necessary supplies from the Secretary of the School, who will also, on request, furnish a list of approved boarding houses.

THE UNIVERSITY LIBRARY

The University Library is under the general management of a Committee of Corporation, consisting of the Principal, Chairman; the Librarian, Secretary; two members of the Board of Governors; one Representative Fellow, appointed by Corporation; two representatives of the Faculty of Arts, elected by the Faculty; two representatives of the Faculty of Applied Science, one of whom (being a member of some special Science Library Committee will look after the interests of these libraries on the committee); one representative of each of the Faculties of Law, Medicine, Dentistry, and Graduate Studies, elected by their respective Faculties; the Dean of the Faculty of Medicine (or the Secretary of the Faculty); the Honorary Librarian of the Medical Library; one representative of the Royal Victoria College, and four other members appointed by Corporation.

The several libraries of the University now contain over 300,000 volumes and 35,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. The Library now receives over 1,200 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the Library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakesperiana, the Redpath Historical Collection, and the Collection of Canadiana. The nucleus of the latter is formed by the choice library of the late Mr. Frederick Griffin, which he bequeathed to the University about forty years ago. It has been growing ever since, and includes, at the present time, besides numerous manuscripts, an interesting collection of Canadian portraits and autographs, recently increased by a gift from Mr. George Iles. The Canadiana have been further enriched by the recent gift of over 270 volumes and 50 pamphlets from the library of the late Mr. William McLennan, presented in memory of him by his children. The library now has an extensive collection of bookplates in process of being classified and mounted.

The Redpath Historical Collection was begun by the late Mr. Peter Redpath soon after he became a Governor of the University. It received substantial yearly additions from him up to the year of his death, after which it was steadily augmented by his widow during the remainder of her life. It is now large and valuable, and affords excellent opportunities for the study of history. Its most striking feature—a series of political, religious and social tracts, for which the first selections were made by the late Professor Henry Morley—was greatly enriched by

the late Mrs. Redpath and now comprises about 10,000 brochures, dating from 1600 A.D. to the end of the nineteenth century.

A special Architectural collection, known as the "Blackader Library of Architecture," has been established in honour of Captain Gordon Home Blackader, B.Arch. (McGill), who was wounded near Ypres on June 2nd, 1916, and died in London on August 20th of the same year.

"The Emma Shearer Wood Library of Ornithology" was presented by Colonel Casey A. Wood, M.D., LL.D., as a special research collection and reference library rich in periodical and pamphlet material, for use by all who are interested in birds.

"The Blacker Library of Zoology" has been presented by Robert Roe Blacker and Nellie Canfield Blacker, as a comprehensive reference library on this special subject. In addition to standard works, it includes a number of monographs and an extensive collection of reports of scientific voyages and periodicals.

These three collections are now housed in the recently completed addition to the library and are provided in each case with a reading-room adjacent to the new steel stacks which are devoted to these special libraries.

Students and investigators have the privilege of using the resources of the Gest Chinese Research Library, which contains, in addition to works in English and European languages, a Chinese collection of 40,000 ts'ê, bound in t'ao, on all subjects and including an unusually large number of early and rare imperial editions.

The Barnes Collection of books on Physics is shelved with the Departmental Library in the Physics Building. The School of Commerce, the School for Graduate Nurses and the Department of Social Service are beginning to make collections of books on their special subjects.

Founded in 1900, as a memorial to the late Mr. Hugh McLennan from his children, the Travelling Libraries of McGill University were endowed in 1911 by their founders. These libraries contain, each, from thirty to forty carefully selected volumes and are sent, on application, and on payment of a nominal fee of $4.00, to schools, to country libraries, to reading clubs, and to small communities which possess no public library. Pictures, lantern slides and lectures are also supplied by this department. Regulations and full particulars may be obtained from the Librarian of the University. Provision has also been made to supply books by mail to graduates of the affiliated theological colleges and to ministers who have not the advantage of local libraries.

Although the Library is maintained primarily for members of the University, the Corporation has provided for admission, upon certain conditions, of such persons as may be approved by the Library Com-

mittee. It is the desire of the Committee to make the Library as useful to the entire community as is consistent with the safety of the books and the general interests of the University.

The Library serves also as a general reference library for Montreal and has been of service in this capacity to institutions, learned societies, business houses, railways, corporations, and industrial societies. It also has a system of inter-library loans by which it sends books to other libraries and obtains for the teaching staff works not available here.

With the Library are affiliated the McGill College Book Club and the University Book Club, which supply their members with standard, important and recent publications and make a substantial annual contribution of books to the Library.

Extracts from te Library Regulations

1. The University Library is closed on Sundays, and on certain stated University holidays. With a few exceptions, which are posted in the Library at the appropriate time, it is open as follows:—

(*a*) During the session, from 9 a.m. till 6 p.m. and from 7 till 10 p.m. On Saturdays from 9 a.m. till 5 p.m.

(*b*) During vacation, from 9 a.m. till 5 p.m. On Saturdays, from 9 a.m. till 1 p.m., except during July and August, when the Library is closed on Saturdays.

2. Students in the Library School are entitled to read in the Library, and may borrow books (subject to the regulations) to the number of three volumes at one time.

3. Books may be taken from the Library only after they have been charged at the delivery desk; borrowers who cannot attend personally must sign and date an order, giving the titles of the books desired.

4. Books shelved in the reading rooms must not be taken from the rooms to which they have been assigned; and, after they have been used, they must be returned promptly by readers to their proper places upon the shelves.

5. Before leaving the Library, readers must return to the attendant at the delivery desk books which they have drawn from the stack for use in the reading-room.

6. All persons using books remain responsible for them so long as the books are charged to them, and borrowers returning books must see that their receipt is properly cancelled.

7. Writing or making any mark upon any book belonging to the Library is unconditionally forbidden. Any persons found guilty of wilfully damaging any book in any way shall be excluded from the

Library and shall be debarred from the use thereof for such time as the Library Committee may determine.

8. Damage to or loss of any books, maps, or plates, and injury to library fixtures, must be made good to the satisfaction of the Librarian and the Library Committee.

Damage, loss or injury, when the responsibility cannot be traced, will be made good out of the caution money deposited by the students with the Bursar.

9. Should any borrower fail to return a book upon the date when its return is due, he may be notified by postal card, and requested to return the book. If the time has not been extended, or the book returned, after a further delay of at most three days, the books may be sent for by special messenger, at the borrower's expense, or may be replaced and paid for, in the case of a student, out of the caution monies of such student; in the case of graduates or other borrowers, out of their library deposits. A fine of five cents for ordinary books and of twenty-five cents for reference books is imposed for each day that a book is overdue.

10. Before the close of each session, students must return, uninjured, or replace to the satisfaction of the Librarian, all books which they have borrowed.

11. Silence must be strictly observed in the Library.

12. Infringement of any of the rules of the Library will subject the offender to a suspension of his privileges, or to such other penalty as the nature of the case may require.

LIBRARY FEES

The Library fee for undergraduate students in the Faculties of Arts, Applied Science and Law is included in the University fees. The fee for partial students is $4.00. Graduates and students attending extension courses using the University Library must make a deposit of $5.00 at the Bursar's Office. The fee for members of the McGill College Book Club and the University Book Club are payable to their respective treasurers. Individuals not belonging to any of the above groups may use the Reading Room without charge, but should apply to the Library Committee, through the Librarian, for permission to take books from the building.

MACDONALD COLLEGE

FOUNDATION AND PURPOSE

Macdonald College, which is incorporated with McGill University, was founded, erected, equipped and endowed by the late Sir William C. Macdonald for the following among other purposes:—

(1) The advancement of education; the carrying on of research work and investigation and the dissemination of knowledge; all with particular regard to the interests and needs of the population in rural districts.

(2) To provide suitable and effective training for teachers, and especially for those whose work will directly affect education in schools in rural districts.

SITUATION AND EXTENT

The College occupies a beautiful site, overlooking the Ottawa River at Ste. Anne de Bellevue, P.Q., twenty miles west of Montreal. The main lines of the Grand Trunk and the Canadian Pacific railways pass through the property, and the stations of both railways are within its boundaries.

The College property comprises 786 acres, and has been arranged into four main areas, viz.: (1) the campus, with lawn, school garden, and recreation fields for men and women; (2) experimental grounds, with plots for illustration and research in grains, grasses, and other farm crops; (3) the horticultural and poultry departments; and (4) the stock farm.

THE GENERAL ORGANIZATION

The College is divided into three schools:—

(1) **The School of Agriculture,** which aims to provide a theoretical and practical training in the several branches of agriculture.

(2) **The School for Teachers,** which offers a comprehensive and thoroughly practical training in the art and science of teaching.

(3) **The School of Household Science,** in which young women receive training which will make for the improvement and greater enjoyment of home life and instructs them in professional work in household and institute superintendence and management.

ENTRANCE REQUIREMENTS

School of Agriculture.

See page 83 and the following.

School for Teachers.

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Public Instruction for the Province of Quebec will be admitted under conditions prescribed by that body, particulars concerning which are given in detail in the Announcement of Macdonald College.

School of Household Science.

All candidates for admission:—

1. (a) To the homemaker course, must have entered their eighteenth year and completed grade VII. of the Province of Quebec, or its equivalent.

   (b) To the institution administration course, must have entered their twenty-first year, completed grade XI. (school leaving) of the Province of Quebec, or its equivalent, and have had some previous experience in housekeeping (*e.g.*, assisting with the housekeeping in their own homes).

   (c) To the short courses, must have entered their eighteenth year, be able to read and write the English language acceptably and be proficient in the use of elementary mathematics.

2. Must produce satisfactory evidence as to moral character; also medical certificate of health, including successful vaccination within the six years preceding date of entrance.

THE B.S.A. DEGREE

Students who shall have completed the regular course of study in Agriculture, as laid down in the Announcement of the College, and shall have passed the prescribed examinations for graduation, shall be entitled to the degree of Bachelor of Science in Agriculture, and the degree, when abbreviated, shall be designated by the letters B.S.A.

Post-graduate work may be taken at Macdonald College. The degrees offered are M.S.A., M.Sc., Ph.D. These courses are set forth in the Announcement of the Faculty of Graduate Studies and Research.

DEGREE IN HOUSEHOLD SCIENCE

Students who shall have completed the regular course of study of the first two years in the Faculty of Arts, and shall have passed the prescribed examinations during the course, and thereafter shall have completed a special course of study for two years at Macdonald College, and shall have passed the prescribed examinations during the said course and also the special examinations for graduation, shall be entitled to the Degree of Bachelor of Household Science.

PROVINCIAL GOVERNMENT GRANTS TO STUDENTS FROM THE PROVINCE OF QUEBEC

(1) *School of Agriculture*

The Department of Agriculture of the Province of Quebec grants to each student who belongs to the Province of Quebec $9.00 per month of attendance employed in studying according to the time-table in the School of Agriculture, Macdonald College. This amount will be placed to the credit of such students by the College Bursar and will be applied on account of board and lodging.

(2) *School of Household Science*

The Provincial Government grants bursaries of $20.00 to $50.00 each to Quebec students from the farming community in the junior and senior years of the School of Household Science.

COLLEGE ANNOUNCEMENT

Full details as to the course, etc., will be found in the Announcement of Macdonald College, which will be sent on application to the Registrar, Macdonald College, Que.

UNIVERSITY BUILDINGS

THE ARTS BUILDING

This building stands at the head of the Avenue and is three storeys in height. It contains two large and twelve average-sized class-rooms, the largest capable of seating 180 students, as well as numerous conference rooms, professors' offices and a Psychological laboratory and research room.

The men's and women's lounge rooms and the reading room are on the first floor where are also to be found the office of the Dean, the Faculty Room and the Professors' common room for men (that for the women Professors is on the second floor).

During the spring and summer of 1926 the old Arts Building and Molson Hall were transformed into this splendidly equipped modern building, the only part of the old building remaining being the front wall. The main feature of the building is the Moyse Hall, the cost of which was provided for mainly by a donation from Lord Atholstan in memory of the late Charles E. Moyse, Professor of English Language and Literature for many years. It is fitted for lectures and plays with the necessary dressing rooms and stage fixtures and is especially used in connection with the English classes. The hall is capable of seating 500 people and is beautifully decorated, as is also the large vestibule with its four immense black marble pillars. The style of decoration in the vestibule follows that in the Moyse Hall.

THE CONSERVATORIUM OF MUSIC

The Conservatorium of Music is situated at the corner of University and Sherbrooke Streets, adjoining the University grounds. On the ground floor are the offices of the Director and of the Secretary, the library and a concert hall where recitals by the staff and students are given during the session and where orchestral and choral practices are held (the more important concerts take place in the large assembly hall of the Royal Victoria College). The second and third floors contain a number of studios, where lessons are given by the various members of the staff, as well as a room for lectures in theory and history of music, sight-singing, etc. In the basement are several practice rooms.

THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over $600,000, contains the Offices of Administration, the Medical Library (with its 38,000 volumes, its Reading Rooms and their complete set of technical

journals), the Departments of Anatomy, Histology, Hygiene, Pharmacy, and the magnificent Museum of Anatomy. The Faculty of Dentistry is also in this Building.

The new Library rooms for the reception of the Osler Library are now complete and await its arrival.

The Department of Anatomy, with its commodious laboratories, its Dissecting Room with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department.

The Department of Histology and Embryology, too, has excellent facilities, with laboratory space for 120 students, and smaller laboratories for research.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over $500,000, this edifice was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184′ x 36′—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these Departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

The Department of Botany, in addition to its laboratories, has three glass houses—60′ x 18′—adjacent to the Building, and provides living material for the work in General Biology and General Physiology.

The Department of Physiology, with its large and well-equipped teaching laboratories, each accommodating 96 students, is provided not only with motor-driven recording drums for each pair of students, but has also 16 fixed tables equipped with all the necessary apparatus for practical experiments in Physiology which each student must undertake for himself. Other rooms provide for advanced practical instruction and research. This Department is admirably equipped with an excellent workshop, animal quarters, operating and sterilizing rooms, string-galvanometer room, histology rooms, including dark rooms, and the usual space for demonstration. The frog and turtle tanks are in the Basement, and a two-storey house for mammals is adjacent.

The Biochemistry Laboratory on the Third Floor is of the most modern type, and has abundant accommodation for research workers. An extension of this floor is already being required to fulfil the needs of Physical Chemistry and the added interest of metabolic studies.

The Department of Pharmacology occupies the Top Floor, and is equally well-equipped.

THE PATHOLOGICAL INSTITUTE

The Pathological Institute, which houses the Departments of Pathology, Bacteriology and Medical Jurisprudence, has just been completed. This building, over 200 feet long and from 60 to 90 feet wide, faces the Royal Victoria Hospital, with which it is connected by a tunnel. It is of steel and stone construction in harmony with the architecture of the Royal Victoria Hospital and consists of a high basement containing mortuary for twelve bodies, shops, students' rooms, offices, and machinery rooms. The first floor is given over to Pathology and Medical Jurisprudence (autopsy theatre, lecture room, museum, demonstration rooms, several small laboratories, library and photography).

The second floor has the chemical, histological, experimental, animal and other research laboratories. The third floor is set apart for students' and research laboratories in Bacteriology. With the main building is connected by an archway a small cottage with living quarters for the technical help and for animal rooms. The building contains throughout all floors a refrigerating system (ammonia plant), hot and cold water, live steam and air exhausts, and a special forced ventilating system. The large students' histology laboratory, accommodating 120 students, is built on a rising tier system of student benches, and the whole north-east wall is practically of thick glass.

THE MACDONALD ENGINEERING BUILDING

This building is designed to provide accommodation for six hundred students. The ground floor is given up to the civil engineering, geodetic, electrical and mechanical engineering laboratories, and is for the most part 23 feet in height. Mechanical and electrical engineering laboratories and the workshops also occupy the three lower floors of the Workman Building. The centre portion of the second floor is used for purposes of administration (faculty rooms, offices, library, etc.). The front parts of the second and third floors are occupied by eight class rooms which contain 700 seats, while the upper floors, both of the Engineering Building and the Workman Building, are devoted to drafting rooms, containing over 500 tables. The building throughout is of the most approved fire-proof construction, not only in the matter of materials, but in arrangement as well, the several floors being divided by fire walls and fire doors into separate sections. It was erected in 1909 at a cost of about half a million dollars.

THE MACDONALD CHEMISTRY AND MINING BUILDING

In addition to the large lecture theatre, which seats about 250 students, there are four lecture rooms for small classes and a number of

offices. There are also three large general clinical laboratories (each with a floor space of about 2,400 square feet and accommodation for 200 students at a time), large laboratories for assaying, ore dressing and metallurgy, with a very complete equipment, and a number of smaller rooms and laboratories for special purposes, including research work. The reference library contains about 1,400 volumes.

THE MACDONALD PHYSICS BUILDING

The building is five storeys in height, each floor having an area of 8,000 square feet. Besides a lecture theatre and its apparatus rooms, the building includes an elementary laboratory nearly 60 feet square, large special laboratories, a range of rooms for optical work and photography, separate rooms for private work, and two large laboratories arranged for research, provided with solid piers and the usual standard instruments. There are also a lecture room for mathematical physics, a special physical library and convenient workshops.

THE UNIVERSITY LIBRARY

This building, which is a fine example of the Romanesque style of architecture, was erected in 1892 by Mr. Peter Redpath, a Governor of the University, and was enlarged in 1900 and again in 1922. The general reading room is 110 feet long, 44 wide and 34 high, and will seat 150 readers. The book stacks, four and five storeys in height, have a working capacity of 150,000 volumes.

THE OBSERVATORY

The Observatory is equipped for instruction in the use of meteorological instruments and in astronomical work. It is the Montreal station of the Meteorological Service of Canada. Time signals are given to the city, the railways and the shipping.

THE POWER STATION

The new Power Station supplies heat to the following buildings: New Medical Building, Biological Building, Engineering and Workman Buildings, Chemistry and Mining Building, the Physics Building and the Arts Building. It also furnishes current for light and power to these buildings and to the Royal Victoria College, the Union and Strathcona Hall. The equipment of the station includes boilers of 1,000 H.P. nominal capacity, provision being made for future extension, and engines and generators of 600 kilowatt capacity. The coal bunkers hold 500 tons. The heating distribution is partly by tunnel and partly by underground conduit, the farthest building served being at a distance of 700

feet from the station. Electric cables are placed underground in vitrified clay conduits.

THE REDPATH MUSEUM

The Museum occupies a commanding position at the upper end of the campus, and besides its central hall and other rooms devoted to the collection, it contains a large lecture theatre, class rooms and work rooms. The collections in botany, palæontology, geology and zoology are fully and admirably arranged for teaching purposes.

THE ROYAL VICTORIA COLLEGE

This is a residential college for the women students of McGill University. It is situated on Sherbrooke Street, in close proximity to the University buildings and laboratories. On the ground floor are the offices of the administration, lecture rooms, students' common room, and a spacious dining hall. A gymnasium is fitted up in the basement. On the first floor are other lecture rooms, the library, reading room and a handsome assembly hall. The second and third floors are given up entirely to rooms for resident students. These rooms are handsomely furnished, as indeed is the whole building.

STRATHCONA HALL

Strathcona Hall is the home of the Student Christian Association of the University. The building is 55 feet by 110 feet, and is five storeys in height. The three upper storeys are arranged to afford residential accommodation for about sixty students. On the ground floor are the secretary's office, sitting rooms, cloak rooms and a hall capable of seating 350 persons. The second floor contains a large reading room, a large game room, and five small rooms for the use of clubs and societies.

THE UNION

The McGill Union stands at the corner of Sherbrooke and Victoria streets, within two minutes' walk of the College gates. The building measures 93 feet by 71 feet and consists of three storeys and a basement. On the main floor are the dining and luncheon rooms; on the second floor, billiard rooms, a news hall, a reading room and a library, a study and a lounging gallery (8 ft. by 21 ft.). The large hall is situated in the top storey. It measures 88 ft. by 45 ft. and has a seating capacity of 400. There are also smaller rooms for society meetings, etc. In the basement are baths, locker rooms and an exercise room (24 ft. by 38 ft.). The Union is the social centre of the University, the common meeting ground for students of all faculties. It is intended to promote a broad and true university spirit.

MUSEUMS

ARCHITECTURAL MUSEUM

The Museum of the Department of Architecture contains a representative collection of historic casts illustrating the development of architectural ornament and form, and the technique of architectural material. Many of the casts have been specially prepared for the Department. The group of English mediæval art is unique in any University on this continent. The collection of metal work includes examples of iron, brass, copper and jewellery, and is arranged so as to exhibit the technical possibilities of the material.

BOTANICAL MUSEUM

In the library and museum room of the Department of Botany, on the ground floor of the Biological Building, is arranged a small teaching collection of 50,000 specimens of Canadian and exotic plants, and collections illustrating structural and economic botany.

MUSEUM OF HYGIENE

The material in the museum has been rearranged with a view to exhibiting not only specimens of the best and most approved types of appliances in each particular branch of public health, but also examples of types which are to be avoided on hygienic principles.

In order to facilitate study and reference, the specimens have been classified upon a decimal system under the following sections:—

1. *Disinfection.*—Including disinfecting apparatus of all kinds, disinfectants and antiseptics.

2. *Lighting and Heating.*—Showing contrivances used for these purposes, and illustrative of the principles involved.

3. *Water.*—Showing conditions connected with pollution of water supplies, whether derived from the surface or underground sources; methods of purification on large and small scales; water pipes, etc., and the influence which these fittings may exert upon the water contained therein.

4. *Soils and Building.*—Building sites, various kinds of soils; relation between soil and dampness; permeability of soils to gases and water; composition of soils; effects of ground moisture on dwellings; measures to be taken against dampness and foul air; and building materials of all kinds.

5. *Air.*—Including ventilation schemes and appliances; climate and meteorology, with apparatus illustrative of each class.

6. *Foodstuffs.*—Adulteration and sophistication practised; samples of unsound foodstuffs.

7. *Bacteriological and Pathological.*—Specimens of diseased meats; specimens and slides of all the common micro-organisms, pathogenic and non-pathogenic.

8. *Clothing.*—Specimens of all the materials utilized for the manufacture of clothing, showing the raw state and the various processes through which they pass until the finished product is reached; the hygienic value of these various articles is also set forth.

Injuries and deformities which may directly result from the use of badly designed articles of clothing; history and evolution of clothing.

9. *Drainage and Refuse Disposal.*—This section includes every type of appliance used as sanitary fixtures in buildings; drainage schemes; ultimate disposal of refuse both liquid and solid; refuse destructors, and sewage disposal plants. The section also includes types of faulty methods and appliances which on principle ought to be avoided.

In addition to the regular museum exhibit, there is a collection of over 1,000 lantern slides illustrative of phases of hygiene. The slides have been so arranged as to be available for demonstration as hand specimens.

A catalogue with text and full description of all the exhibits contained in the museum is issued by the University authorities, and may be purchased at the general office.

THE MCCORD NATIONAL MUSEUM

This Museum is located in the old Joseph House, at the corner of Sherbrooke and McTavish Streets. The collection is a gift to the University from Mr. David Ross McCord of Temple Grove, a graduate in Arts of 1863, and in Law of 1867. The range of the collection is most extensive, comprising, as it does, mementos of the great statesmen, warriors, writers and spiritual leaders among the two principal races which are now represented in Canada, as well as of the great explorers of every part of the North American continent. The Arctic souvenirs are especially numerous and important, and in the department of Wolfiana, the Museum is probably unrivalled.

One of the most important departments is that treating of the North American Indian, the section relating to the Indians of the Eastern half of the continent being especially complete. Here are to be seen the arms and personal relics of Tecumseh and Brant, and most wonderful specimens of wampum and Indian silver. The great series of paintings illustrative of the campaigns and archæology of Canada are not only accurate, but artistic. There are separate departments for

china, glass and historical furniture as well as one for the cradle industries of Canada. There is a special room for relics of the Founder of the University, and of its first great Principal, Sir Wm. Dawson, with his distinguished colleagues in science at the time, Sir William Logan and Dr. Sterry Hunt.

A special aim of the Museum is to form a school of useful and ornamental art, based on types of native Indian industry, such as the manufacture of wall papers, works in metal of all kinds, and ceramic work, in the motifs for which the Museum is especially rich.

PATHOLOGICAL MUSEUM

On the ground floor of the Pathological Institute is the Pathological Museum which includes the teaching material for this department. Material for the hospital ward clinics is also prepared from this collection.

REDPATH MUSEUM

On the ground floor is the geological lecture theatre, class, and chart rooms with offices for the staff.

The Lyman Entomological Room is situated on the ground floor. Mr. A. F. Winn is the entomological curator under the Lyman Bequest. The Lyman entomological reference library is kept with the collection.

On the first floor is the great museum hall, on each side of which are alcoves with upright and table cases containing the collection in palæontology arranged primarily to illustrate the successive geological systems, and subordinately to this, in the order of zoological and botanical classification, so as to enable the student to see the general order of life in successive periods, and to trace any particular group through its geological history.

At the extreme end of the hall are placed the collections of minerals and rocks, arranged in such a manner as to facilitate their systematic study. In the centre of the hall are economic collections and large casts and models. These comprise the Sir William Logan Memorial Collection.

In the upper story or gallery of the great hall are placed the zoological collections; the invertebrate animals in table cases in regular series, beginning with the lower form; the vertebrate animals in upright cases, in similar order. The *Philip Carpenter Collection* of shells is especially noteworthy for its arrangement and completeness.

Papers and memoirs relating to certain type specimens in the collections can be obtained from the Assistant Curator. Classes of pupils from schools can be admitted on certain days under regulations which may be learned from the Professors of Geology and Zoology or from the Registrar of the University.

STRATHCONA MUSEUM

Ground Floor: Ethnological Collection.

On the ground floor is arranged.

1. Ethnological Collection, including Dr. G. M. Dawson's Indian Collection of materials from the Queen Charlotte Islands.
2. The Todd Collection of Canadian Indian material.
3. The Todd Ethnographical Collection from West Africa.
4. Ethnological Collection from the Montreal Natural History Society.

Also much other material presented to the University extending over a period of fifty years.

Second Floor: Medical Collection.

Material consisting of 3,540 mounted and catalogued specimens is on the shelves, and the balance in a carefully labelled and classified storage, where the specimens are readily available for clinical teaching, and from which they are constantly being drawn and added to the display collection on the shelves of the Museum proper.

A descriptive catalogue is in process of preparation. The Museum includes the pathological collection of the Royal Victoria Hospital, which consists of some 240 specimens preserved in colours, mounted and catalogued. Some 110 models of microscopic slides and charts, for pathological and clinical teaching, are filed in the Museum. There are also 250 of Osler's original specimens collected and prepared by himself while at McGill University.

Third Floor: Anatomical Collection.

The Anatomical Museum is designed primarily as a teaching museum to be used in conjunction with the didactic and practical instruction given in the Department of Anatomy. It now contains several thousand preparations and models arranged to illustrate general embrylogy; human embryology and organogenesis; the theory of human evolution; the prehistoric races of mankind; physical anthropology; comparative osteology; general comparative anatomy and the details of human structure, regional, systematic and topographical.

In addition to the material which is exhibited in the museum cases several hundred wet preparations are kept in storage and are used as teaching specimens in the class and dissecting rooms.

Special collections illustrating the anatomy of regions and organs have been formed and are being continually augmented. These are available not only for undergraduate teaching, but also for use by interested graduates.

A collection of over two thousand lantern slides and several hundred stereoscopic photographs is maintained.

LABORATORIES

CEMENT LABORATORIES

The laboratory is equipped for making complete tests on the strength and properties of cements, mortars, concrete, concrete beams, etc., and includes the following:—Tensile testing machines, hydraulic compression machine (50-ton), specific gravity apparatus, sieves for fineness tests, steaming apparatus, Vicat's and Gilmore's needles, metal moulds, mixers, rammers, balances, etc. Tanks are provided for the storage of briquettes and other test specimens, and the equipment is supplemented by that of the Strength of Materials Laboratory in making tests on large-sized specimens.

CHEMICAL LABORATORIES

(*In the Chemistry and Mining Building*)

Each of the three principal laboratories has a floor-space of about 2,400 square feet, and together they provide accommodation for nearly two hundred students working at one time. They are lighted on three sides, have special ventilation, and have ample hood space. Laboratory A is planned for beginners, and the other two for more advanced work; B for quantitative analysis, and C for organic preparation and qualitative analysis. In connection with each of the main laboratories is a balance-room equipped with balances by several of the best makers and an instruction room.

Physical chemistry is provided for in a special laboratory, nearly 30 by 40 feet, supplied with electricity, steam, vacuum pumps, etc. The equipment of this laboratory consists of the apparatus necessary for all requisite experiments in physical chemistry, determination of the specific gravity of solutions, of the depression of freezing point, of the rise of boiling point, and of densities of grases and vapours. There are constant-temperature baths for accurate measurement of solubilities, Kohlrausch's apparatus for determining the electrical conductivity of solutions, and the apparatus necessary for measuring the electromotive forces generated between metals and their solutions, and in voltaic cells generally. There are also calorimeters for measuring the heat effect produced in chemical reactions. On the same floor there is an optical room, devoted more particularly to crystallographic work and furnished with goniometers, polarizing microscopes, axial-angle apparatus, refractometers, etc.

Immediately adjoining the laboratory of physical chemistry is the photographic department, supplied with two dark rooms, provided with the necessary appliances for all ordinary photographic work.

A new laboratory of the same floor area as the larger laboratories has been equipped for physical and colloidal chemistry.

The laboratory for gas analysis is fitted with a large tank to contain water at the temperature of the room, for use in obtaining a constant temperature in the measurement of gases. The tables are arranged for work with mercury and the laboratory is supplied with the apparatus of Hempel, Dittmar, Arsat, Elliott and others.

The laboratory for electrolytic analysis is supplied with accumulators, thermopiles, platinum electrodes, rheostats, ammeters, voltmeters, etc.

Another room has lately been equipped with electric furnaces and other appliances for electro-chemical work.

The organic department comprises a laboratory for preparations and research, a combustion room for analysis, a dark room for polariscope and saccharimeter work, and a lecture room.

The laboratory for industrial chemistry is especially ventilated and fire-proofed. Here operations on a semi-commercial scale may be conducted involving the use of explosive and other dangerous chemicals.

The Chemistry Building is well equipped with small research laboratories for graduate and other research students. Recently a laboratory with bench room for over 200 has been given over for pre-Medical and pre-Science students, in the Biological Building.

Electrical Laboratories

The Senior Laboratory is equipped primarily for the study of alternating current phenomena and is equipped with motor-driven alternators of various types, giving a range frequency of from 25 to 360 cycles per sec.; single and polyphase induction motors of the squirrel cage and wound rotor types; single phase series and repulsion motors; constant voltage and constant current transformers; mercury arc rectifier; rotary converters; potential regulators; meters for the measurement of current, voltage, power frequency, power factor, maximum demand and wave form; relays, rheostats, circuit breakers, static condensers, reactance coils, synchroscopes and other auxiliary apparatus. A traveling crane spans the laboratory and gives facilities for the rearrangement of the machines.

The above laboratory is also used by the Third Year electrical students for the study of current flow in circuits and of direct current machinery.

The Junior Electrical Laboratory on the third floor of the Electrical Engineering Building is used by the students of other departments who are taking an elementary electrical course, for the study

of both direct and alternating current phenomena. The laboratory is equipped with shunt, compound and series wound direct current generators and motors of different types; constant current generators; arc and incandescent lamps; meters for the measurement of current, voltage and power; rheostats, circuit breakers, starters and other auxiliary apparatus. Several alternators, transformers, rotary converters and induction motors along with the necessary instruments and control apparatus are provided for use by the students taking the general elementary course. A hand-operated travelling crane gives facility for the rearrangement of the machines.

The Electrical Measurements Laboratory on the fourth floor of the Electrical Engineering Building is equipped with apparatus for precision measurements of electrical quantities of all kinds.

This laboratory is used by the senior electrical engineering students and post graduate students. It is also used by members of the staff for industrial testing and research. The most common industrial tests performed are:—Conductivity, insulation resistance, ratio and phase angle of current transformers, dielectric strength of transformer oil and other insulating materials, calibration of electrical meters, magnetic testing of iron, temperature coefficients of resistance, capacities of condensers, inductance of coils, light distribution curves of reflectors, and efficiency of transmission of light through globes.

The equipment includes:—a conductivity bridge with controlled temperature oil bath, Wheatstone bridges, standard resistances, Weston Standard Cells, precision potentiometer, Kelvin current and watt balances, Weston standard ammeters, voltmeters and wattmeters, frequency meters, current and potential transformers, D'Arsonval galvanometers, vibration galvanometers, thermo-galvanometers, dynamometers, wave meters, potential regulators, phase shifters, thermionic valves, planimeter, precision photometer bar, with universal rotators, motor driven sector discs and screens, certified standard incandescent lamps, Sharp Millar portable photometer, Burrows permeameter, and Epstein iron tester, variable mutual inductances and condensers, etc.

The laboratory is supplied with direct currents up to 750 amperes, alternating currents up to 3,000 amperes, direct voltages up to 1,500 volts and alternating voltages up to 200,000 volts, variable audio-frequency oscillating generators provide power for bridge measurements.

The Communication Engineering Laboratory, on the fourth floor, is equipped with apparatus for building up oscillating, transmitting, detecting, and amplifying circuits, and for radio measurements of all kinds. A certain amount of industrial testing and calibrating is carried on by the department, chiefly thermionic valve testing and measurements of inductance and capacity. The laboratory is also being equipped

with apparatus for the study of telephone problems; transmission, inductive interference from power lines, measurements of noise on telephone lines, cross-talk, transpositions, and the use of repeaters, etc.

The High-voltage Laboratory contains the following equipment: Four 200 to 50,000 volt transformers insulated so as to operate up to 200,000 volts; one 200 to 2,000 volt insulating transformer; one 110 to 20,000 volt testing transformer; standard spark gaps for oil and air; cathode ray tubes, electrostatic voltmeters and other auxiliary equipment. The transformers are provided with auxiliary voltage coils for direct voltage measurement and for connection to the oscillograph. The connections to this laboratory are such that any machine in the department may be used as a source of power and controlled directly from the transformer room, so that a wide range of frequency and of wave form is available for experimental work.

The Oscillograph Laboratory is equipped with a Blondel triple oscillograph, with both visual and photographic attachments, and is specially adapted for the study of transient phenomena.

Power is supplied to the above laboratories from the 220-volt, 3-wire, D.C. generators in the central power-house. The voltage is maintained approximately constant on the two sides of the system by a balancer set located in the Senior Laboratory, which is also equipped for supplying constant voltage circuits of 125 volts.

The Department maintains a small machine-shop for instrument and machine repair and for the construction of special experimental apparatus.

GEODETIC LABORATORY

The equipment of this laboratory consists of:—

(1) Linear instruments: a Rogers comparator and a standard bar for investigating standards of length; a fifty-foot standard and comparator for standardizing steel bands, chains, tapes, rods, etc.; a Munro-Rogers linear dividing engine.

(2) Circular instruments: a Rogers circular comparator.

(3) Time: an astronomical clock and clock circuit in connection with the observatory clocks; chronometers running on mean and sidereal time; chronograph.

(4) Gravity: a portable Bessel's reversible pendulum apparatus with special pendulum clock and telescopic apparatus for observing coincidence by beats.

(5) A water gauge apparatus for testing aneroid barometers; four level triers.

The laboratory and clock rooms are constructed with double walls and enclosed air spaces, and their heating is controlled by special thermostats, so that the temperature within may be brought to, and held at, any desired degree.

Astronomical Observatory.—The observatory equipment for the purpose of instruction in practical astronomy consists of: a Bamberg prismatic transit with zenith attachment; six astronomical transits for meridian observations; two Troughton & Simms zenith telescopes; two 8″ alt-azimuth instruments; sidereal and mean time clocks and chronometers, chronograph and electrical circuits by which observations and clock comparisons within or without the observatory may be made.

HIGHWAYS LABORATORY

The Highways Laboratory is equipped for conducting physical and chemical tests of road building materials, such as asphalts, tars, brick, stone, gravel, sand, etc. Among the more important items of equipment are Deval and Dorry machines; a standard rattler; an impact testing machine for rock; a diamond drill, lap and saw for preparing rock specimens; balances and scales; asphalt ductility machines; penetrometer; screens and screen shaker; extraction apparatus; drying ovens (gas and electric); viscosimeters; flash point testers; specific gravity apparatus, and melting point apparatus. There is also a large assortment of chemical glassware, etc.

Facilities for advanced work are greatly increased by the fact that this laboratory is operated in close connection with the Strength of Materials Laboratory.

HYDRAULIC LABORATORY

In this laboratory the student studies experimentally the laws governing the flow of water through orifices, pipes, weirs, etc., and carries out experiments on the efficiency of various forms of water turbines running under different conditions as regards head and supply.

The equipment includes:—Apparatus for the measurement of the discharge of water from orifices, nozzles, weirs, etc., under varying conditions; arrangements for investigation of the loss of head by surface friction, by valves and diaphragms, and at curves and bends in pipes; Venturi meter for use at different discharges; centrifugal pumps of different types arranged for testing under varied conditions; various water turbines, including Pelton wheel, and reaction wheels of Francis and propeller types; apparatus for measurement of pressure due to impact of jets on surfaces of different forms; gauge testing appliances; Hele Shaw's apparatus for study of the steam lines in a perfect fluid, illustrating the flow round obstructions in a channel, and numerous magnetic problems; numerous calibrated tanks, weighing appliances, and measuring apparatus in connection with the above.

The water turbines are of the most modern type, and are arranged for testing so that complete characteristic curves can be obtained. Different types of draft tubes can be used, so that a thorough study can be made of the behaviour of various types of runner under different conditions.

MECHANICAL ENGINEERING LABORATORIES

These laboratories are used in connection with the courses in Mechanical Engineering subjects. The smaller apparatus belonging to the laboratories includes the necessary equipment of weighing machines, ordinary and water dynamometers, steam calorimeters, thermometers, gauges, pyrometers, coal, gas and oil calorimeters, indicators, planimeters, flue gas analysis, etc.

1. Mechanical Laboratory.

The equipment of this laboratory includes:—A Thurston railway pattern oil tester, fitted with water cooling and heating apparatus for varying the temperature of the brasses as desired; standard viscosimeters and other necessary apparatus for the physical testing of lubricants; a high-speed horizontal engine having a cylinder 6 inches diameter, 9 inches stroke, and operated by compressed air; a gas-fired preheater for the above engine; two standard 9½-inch Westinghouse airbrake pumps, fitted for testing and supplying compressed air for experimental and other purposes; a non-rotative Blake steam pump, having steam and water cylinders 4½ and 2¾ inches diameter and 4½ inches stroke; apparatus for measuring the heat loss from pipe coverings and from radiators, on the efficiency of worm and other gearing, for governor testing, for testing fans and blowers.

2. Steam Engine Laboratory.

This laboratory is furnished with an experimental steam engine of 120 I.H.P., specially designed for investigating the behaviour of steam under varying conditions. The cylinders are 6½ inches, 9 inches, 13 inches and 18 inches in diameter, and the stroke of all the pistons is 15 inches. The cylinders can be so connected as to allow of working as a single, compound, triple, or quadruple expansion engine, either condensing or non-condensing, and with any desired rate of expansion. The jackets are so fitted as to permit of measuring independently the water condensed in the cover, barrel, or bottom jacket of each cylinder, and the engine can be worked with any desired initial pressure up to 200 lbs. per square inch. The measurements of heat are made by means of large tanks, which receive the cooling water and the condensed steam. There is an independent surface condenser and air pump. Two hydraulic absorption brakes and an alternative friction brake serve to measure the mechanical power developed. This laboratory also contains the following machinery:—A Robb automatic cut-off engine, having a

cylinder 10½ inches in diameter by 12 inches stroke, which is specially fitted up for the measurement of cylinder temperatures, and can be run at speeds up to 300 revolutions per minute; an automatic high-speed engine by Macintosh & Seymour, having a cylinder 12 inches in diameter by 12½ inches stroke, in connection with which there is an automatic recording apparatus for registering the load on the brake; a Leonard horizontal engine, having a cylinder 8 inches diameter by 9 inches stroke, specially fitted for instructional work in valve setting and provided with an independent surface condenser; a two-stage air compressor (built in the workshops of the Department) taking 40 H.P. and having cylinders 10 inches and 17 inches in diameter, by 15 inches stroke (the compressor delivers its air into reservoirs placed beneath the floor of the machine shop, and is provided with an intercooler whose capacity can be varied as desired); a 15 K.W. Curtis steam turbo-generator with independent surface condenser, air pump, and a bank of lamps for varying the load; two 12 H.P. high-speed forced lubrication compound engines (built in the workshops of the Department), one of which is used to drive a Hall 1-ton Co_2 ice machine.

Steam is supplied to this laboratory by the boilers in the Workman Building. These consist of one 100 H.P. locomotive boiler, Belpaire type, fitted with Howden oil burning furnace, two Babcock & Wilcox water tube boilers, each 60 H.P. These boilers are fitted with the necessary tanks, weighing machines and apparatus for carrying out evaporative tests. For the study of superheated steam, one of the B. & W. boilers is fitted with a superheater built by the Superheater Co., and there is also a B. & W. separately fired superheater.

3 Gas Engine Laboratory.

This laboratory contains a horizontal gas engine by the National Gas Engine Company, having a cylinder 12 inches diameter by 20 inches stroke and developing 40 B.H.P.; a suction type producer for the above with the necessary scrubbers and gas cleaning apparatus; a 10 B.H.P. Otto type gas engine (built in the workshops of the Department), having a cylinder 8½ inches diameter by 12 inches stroke; a 14 B.H.P. 2-cylinder, 2-cycle Grey gasoline engine; a 4 H.P. Blackstone oil engine, a Ford automobile engine, a 9 H.P. Victory (Hvid) oil engine, a 9 H.P. crude oil engine built by Vickers & Co.

4. Machine Shop.

This shop contains lathes, shapers, milling machines, etc., and in addition to being used for shopwork instruction is used as a laboratory for time studies and routing, etc.

METALLURGICAL AND ASSAYING LABORATORIES

These consist of a large furnace room of 2,000 sq. feet, for metallurgical operations, a furnace room for assaying of 1,000 sq. feet, a

balance room, two small chemical laboratories, and parts of other rooms, which are utilized for pyrometric and photo-microscopic work. The furnace room is fitted with a water-jacket, blast-furnace, 21 inches inside diameter, for smelting lead and copper ores, and a Bruckner roasting furnace.

In addition to this comparatively large-scale plant, apparatus has been provided to enable the students to study in detail the more important metallurgical operations, using quantities of ore or metallurgical products of usually not more than a few pounds in weight. For this small-scale work there are a number of crucible and muffle furnaces, heated by coke, gas, oil and electricity.

The electric furnace plant consists of a 50 H.P. motor and a 30 K.W. alternating current generator, together with transformers and measuring instruments. A number of electric furnaces have been installed for making steel, smelting ores, melting metals and making researches at high temperature. A low-voltage direct-current generator is employed for electrolytic operations, and an electrode rotator and storage battery has been added for electrolysis on a small scale. An electric muffle furnace, having carbon resistors and an alundum muffle, is in regular use for determining the melting temperature of refractory materials, measurements being made with an optical pyrometer and Seger cones; the furnace can be heated to 1800°C. A "surface combustion" gas furnace is also available for high temperature work.

A Leeds and Northrup "hump" method electric furnace with recording pyrometer has been modified to give automatic time-temperature control and is now a most useful appliance for heat-treatment and pyrometric research. For heat-treatment and fire-assaying there is also a large electric muffle furnace with automatic temperature control, and a Freas electric oven suitable for constant temperature work up to 180°C.

An oxy-acetylene cutting and welding outfit is in regular use and has proved both instructive and useful for repairs and new construction.

A powerful hydraulic press and a piece of apparatus for compressing gases by hydraulic power are available for experiments that have to be conducted under great pressure.

A small drop-testing machine, a Sankey metal-bending tester, and Shore, Brinell and Rockwell hardness testers have been installed for investigating the mechanical properties of metals.

The assaying laboratory is equipped with a number of crucible furnaces fired with coke, a large gas muffle furnace, several gas-fired crucible furnaces, a large oil-fired muffle furnace and the electric muffle furnace mentioned above.

Adjoining the assaying laboratory are the balance room and a small laboratory for chemical work. One of the chemical laboratories has been fitted up as a regular "works laboratory" in which students are trained in commercial metallurgical analysis.

The metallographic laboratory is wel equipped with microscopes, including a standard works microscope vith photographic attachment. It has also a dark room and two very satisfactory polishing machines for preparing metal specimens, which were built in the Department.

MINING AND ORE-DRESSING LABORATORIES

The Department of Mining Engineering has laboratories for ore-dressing, and a number of rooms of moderate size equipped for use as special laboratories, dark room, machine shop, etc. The effective floor space is about 10,000 square feet, in addition to which the departmental store rooms, ore bins, etc., have an area of 1,500 square feet.

The ore-dressing laboratory proper is built in two storeys about a central well and has about 6,500 square feet total floor space. The equipment comprises pieces of apparatus specially designed for individual work on a small scale. Many of these are for elementary investigation and demonstrations of a theoretical nature, others are working reproductions on a reduced scale of typical ore-dressing machines. Each machine is ordinarily used and tested independently, but, when expedient, a number of machines can be connected and thus complete plants of various kinds can be improvised, each of sufficient capacity to test considerable lots of material under approximately working conditions. Special attention is paid to flotation and cyanidation. In flotation the plant is so arranged that continuous operation is secured and selective flotation of two or more minerals obtained, under conditions which closely approximate large scale operations in both practice and results obtained.

The chief pieces of apparatus in the main laboratory are a gyratory and both types of jaw rock crushers; gravity stamp mill of 600 lbs.; steel-tyred rolls; grinders for preparing samples, and ball mills, pebble mills and amalgamation pans for extremely fine grinding. Following these there are Jones and Brunton samplers; a Callow belt screen, a Tyler Hummer screen, and power shaking screens for sizing the crushed ores; a Richards pulsator jig, and several small hand and power jigs for coarse and medium concentration; Wifley and Butchart riffled tables; magnetic separators, an electrostatic separator, dry and wet coal washers, flotation apparatus of several different types for both continuous and intermittent operations; a pachuca agitator, cyanidation vats and agitators, a Dorr thickener, an Oliver filter with the necessary tanks, pumps, etc., and several smaller vacuum and pressure filters; plates, pans and barrels for amalgamating gold and silver ores; settling and feeding cones, and various other special pieces of ore-dressing apparatus.

An hydraulic lift and the necessary centrifugal pumps, jet elevators, feeders, samplers, steam-jacketed drying tables, etc., are provided for use in heavy continuous work. The power chiefly used is electricity,

generated in the University power station and utilized through a number of independent motors aggregating 100 H.P., but steam is used for some pieces of apparatus and others may be driven by a Pelton wheel. Two motor-driven vacuum pumps and air-compressors of 7½ and 4 H.P. serve the filters and provide an ample supply of compressed air. The Department is equipped with suitable apparatus for electrical measurements, and is thus able to make continuous and accurate determination of the amount of power used by each machine.

In addition to the main laboratory, there are excellent facilities for advanced and research work—including a thoroughly equipped chemical and assay laboratory and a photographic room. The Department possesses a number of cameras, microscopes, recording gauges and indicators, a good equipment of weighing and measuring devices, and special apparatus for advanced theoretical investigation.

THE PHYSICAL LABORATORIES

The equipment of the Macdonald Physical Laboratories comprises: (1) apparatus for illustrating lectures; (2) simple forms of the principal instruments for use by students in practical work; (3) various types of important instruments for exact measurements, to be used in connection with special work and research.

The basement contains a liquid air plant and two large and one small laboratories for research work, Stark effect, radioactivity, electrical measurements, spectroscopes, etc.

There is a constant temperature room, surrounded by double walls, which is fitted with Moll Recorder and Concan Grating.

The first floor contains the main electrical laboratory, which is a room 60 feet by 40, and is fitted with a number of brick piers, which come up through the floor, and rest on independent foundations, in addition to the usual slate shelves around the walls. This room contains a large number of electrometers, galvanometers, potentiometers, and other testing instruments of various patterns, and adapted for different uses. Three small research laboratories adjoin the electrical laboratory. A well-equipped workshop serves for the construction of research apparatus and repair work.

On the second floor of the building there is a heat laboratory for advanced work and research. This adjoins a private laboratory fitted for research work.

The third floor contains two small lecture rooms, a library and reading room for the staff, and professors' rooms.

The fourth floor contains the large elementary laboratory, a room 60 feet square, devoted to elementary practical work in heat, sound, light, electricity and magnetism. There is a demonstrators' room adjoining,

and an optical annex devoted to experiments with lenses, galvanometers, etc., which require a darkened room. On the other side of the building there is an optical laboratory for advanced and research work and a series of smaller optical rooms, and a dark room for photographic work.

On the fifth floor is a laboratory for properties of matter, and a students' lathe and workshop.

STRENGTH OF MATERIALS LABORATORIES

These laboratories are equipped with apparatus for the determination of the physical properties of the materials of construction and for illustrating the fundamental laws of the strength of materials. The equipment includes:—

(*a*) Riehle testing machine of 60,000-lb. capacity, a Wicksteed 100-ton, a Wicksteed 50-ton, an Emery 75-ton machine, and an Olsen machine of 10,000-lb. capacity, for testing the tensile, compressive and transverse strength of materials of construction. The 100-ton Wicksteed machine is equipped for testing the transverse strength of girders and beams up to 26 feet in length. Special facilities are available for timber testing, many of these having been developed to meet the needs of the timber testing work carried out by the Forest Products Laboratories of Canada. Provision is also made for testing ropes, belts and textile fabrics, holding power of nails, strength of hose, etc.

(*b*) An accumulator, operated by an electrically driven pump, furnishes a pressure of 3,600 lbs. per square inch, which is transmitted to the several testing machines, to ensure a steady application of stress.

(c) Extensometers of the Bovey, Ewing, Unwin, Martens, Marshall and other types; portable cathetometers, and also a large cathetometer specially designed and constructed for the determination of the extensions, compressions and deflections of the specimens under stress in the testing machines.

(*d*) Apparatus for measuring the torsion of rods, deflection of springs, elongation of rods under tension; bending combined with torsion, etc.

(*e*) Numerous gauges, amongst which may be specially noticed an Emery pressure gauge, graduated in pounds up to 2,500 lbs. per square inch. All the testing machines are on the same pressure circuit, and are connected with the Emery gauge and other standard gauges. This provides a practically perfect means of checking the accuracy of the testing.

(*f*) Apparatus for determining the hardness of materials of construction, including Shore scleroscope.

(*g*) Zeiss and other microscopes, and apparatus for microscopic study of metals.

(*h*) Delicate chemical and other balances. A very important part of the equipment is the Oertling balance, capable of indicating with extreme accuracy weights of from .00001 lb. up to 125 lbs.

(*i*) Micrometers of all kinds, including a 10-inch Howard gauge, and Berry strain gauges.

BOTANICAL LABORATORIES

The Department of Botany is housed on the first and ground floors of the newly-constructed Biological Building. The large and well-lighted elementary laboratory will afford ample accommodation for large classes. There are, in addition, smaller laboratories for Phanerogamic and Cryptogamic Botany, special rooms for preparation, sterilization, chemistry and photography and research accommodation. Opening out of the large laboratory is a small conservatory for the culture and preservation of demonstration material. A room is also set apart as a departmental laboratory, reading room and demonstration museum.

The practical work in plant physiology, genetics, etc., is done in a special large physiological laboratory (20 ft. by 75 ft.), and three adjoining glass houses, each 60 feet long and 18 feet wide, with the exception of a section of the central house, which is 25 feet square.

PETROGRAPHICAL LABORATORY

The Petrographical Laboratory, containing the chief rock collections of the University, is situated in the Chemistry and Mining Building. It is provided with a number of petrographical microscopes by Bausch and Lomb, Siebert, Grouch, and Fuess, as well as with models, sets of thin sections, electromagnets, heavy solutions, etc., for petrographical work.

A collection of typical rocks has been especially prepared for the use of students, and a complete equipment for cutting, grinding, and polishing rocks has been installed, which runs by electric power and gives excellent facilities for the preparation of thin sections for microscopic use.

For advanced work and petrographical investigation, Dr. Adams' extensive private collection of rocks and thin sections is available for purposes of study and comparison.

THE PSYCHOLOGICAL LABORATORY

The psychological laboratory occupies fourteen rooms on the third floor of the Molson Hall in the Arts Building. It contains apparatus for the study and investigation of sensation, perception, ideas, memory, asso-

ciation, attention, volition, feelings, emotions and reaction. This equipment serves three purposes: First, it is adapted to research work in the various fields of experimental psychology, including physiological psychology, educational psychology, and applied psychology. Second, it is used to acquaint beginners with the methods of experimental psychology, both qualitative and quantitative. Third, it furnishes material for experimental demonstration in the elementary and advanced lecture courses.

THE ZOOLOGICAL LABORATORIES

The zoological laboratories are situated in the new Biological Building, where ample provision is made for the accommodation of all classes.

The equipment includes microscopes and microtomes and accessories of different models for various requirements; fresh water aquaria, preparations, charts and apparatus for research. Specimens exhibited in the Peter Redpath Museum are available for study and illustration.

Arrangements can be made with the Biological Board of Canada for qualified students to take up some branch of original work at the Atlantic Biological Station, St. Andrews, N.B., during the summer months and to complete the investigation here during the session.

DIRECTORY OF STUDENTS

NOTE:—Theological students although included in this list are not members of McGill University but of the affiliated Theological Colleges.

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Abbott, Clark Warner	Arch. 3	1189 Guy St., Montreal	Up. 9250
Abbott, Harold Felch	Ap. Sci. 4	3621 Park Ave., Montreal Prince George, B.C.	Pl. 5552
Aber, David Peter	Com. 3	1673 Notre Dame St. W., Montreal.	West. 6656
Abrahamson, David Lyon	Arts 3	410 Durocher Ave., Outremont, Que.	At. 2650
Abrahamson, Robert H.	Med. 3	319 Peel St., Montreal 260 Riverside Drive, New York, N.Y.	
Abrahamson, Sadie Cecily	Arts 3	410 Durocher Ave., Outremont, Que.	At. 2650
Abramovitch, Harry	Com. 3	4366 Laval Ave., Montreal	Plat. 2311
Abramowitz, Richard	Ap. Sci. 2	4076 St. Urbain St., Montreal	Bel. 4942W.
Acena, Jose Guillermo	Ap. Sci. 2	1723 Ave. de l'Eglise, Montreal 14 C.P. No. 17A Guatemala City	York 0354
Acland, Mary Elizabeth A.	Grad. Nurses	Monteregian Club, 3426 McTavish St., Montreal 438 Queen St., Ottawa, Ont.	Up. 3607
Adamo, Angelo Antonio	Med. 1	791 Shuter St., Montreal 31 Marietta St., Providence, R.I.	Plat. 6742
Adams, Aldeth E.	Arts 3	306A Prince Arthur St. W., Montreal Magog, Que.	
Adams, Arnold Wilson.	Dent. 3	167 Huchison St., Montreal Magog, Que.	Plat. 2396
Adams, Eric George	Ap. Sci 3	3581 University St., Montreal 1 Elgin St., Granby, Que.	Plat. 6979
Adams, Gordon Taylor.	Med. 2	716 De l'Epee Ave., Apt. 4, Montreal Matapedia, Que.	At. 1939
Addie, Gordon Rennie.	Arts 2	3473 University St., Montreal 148 St. Cyrille St., Quebec, Que.	Up. 2173
Adney, Thomas Harvey	Arts 3	Presbyterian College, Montreal Windermere, Thurlow St., Vancouver, B.C.	Up. 9130
Affinito, Thomas	Med. 2	3530 Durocher St., Montreal 395 Ellsworth Ave., New Haven, Conn.	Plat. 2642
Agajeenian, Robert	Arts 3	Central Y.M.C.A., Montreal 156 George St., Brantford, Ont.	Up. 6500
Aitken, R. Gordon.	Ap. Sci. 3	3535 Shuter St., Montreal 153 Quebec St., Sherbrooke, Que.	Plat. 5154
Alchin, R. H.	Theology	3473 University St., Montreal	Up. 1475
Alcorn, Douglas E.	Med 2	95 Hutchison St., Montreal 572 Beach Drive, Victoria, B.C.	Plat. 5235
Alexander, Elsie Lillian.	Arts 1	419 Addington Ave., Montreal	Wal. 2668
Alexander, Isabel E.	Arts 2	334 Harvard Ave., Montreal	Wal. 0364
Alexander, John Duncan F.	Arts 1	Apt. 6, 2088 Jeanne Mance St., Montreal	Plat. 0741
Alexandor, Bernard Morris	Arts 4	613 Victoria Ave., Westmount, Que.,	West. 1800
Alexandor, Felix.	Arts 1	613 Victoria Ave., Westmount, Que.,	West. 1800
Alexandor, Huldah	Arts 3	613 Victoria Ave., Westmount, Que.,	West. 1800
Allan, Thayer.	Arts P	641 Victoria Ave., Westmount, Que.,	West. 2534
Allan, Warde B.	Med. 4	461 Sherbrooke St., W., Montreal 602—13th Ave. W., Calgary, Alta.	Up. 4418
Allan, William S.	Med. 5	42 St. Mark St., Montreal 524d—5th Ave., Medicine Hat, Alta.	Up. 7330
Allen, Alexander Stewart	Med. 4	3506 University St., Montreal Naramata, B.C.	Up. 0290
Allen, Edward R.,	Med. 5	3524 University St., Montreal Jamestown, N.Y.	Up. 9173
Allen, John C.	Com. P.	145 Cote des Neiges Rd., Montreal.	Up. 3795
Allen, Margaret Phyllis	Arts 1	229 The Boulevard, Westmount, Que.	West. 1899
Allendorf, Francis Jasper	Med. 3	3566 Lorne Ave., Montreal 76 Carroll St., West Roxbury, Mass.	Plat. 5056

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Allison, Joseph Ringen	Arts 1	304 Prince Arthur St. W., Montreal.	Plat. 3624
		Rothesay, N.B.	
Alpert, Barnett Bertram	Med. 2	315 Pine Ave. W., Montreal	Plat. 1681
		2038-61st St., Brooklyn, N.Y.	
Altimas, Gerald T	Med. 3	5358 Waverley St., Montreal	Cres. 0042
Altner, Joseph B	Com. 1	328 Sherbrooke St. W., Montreal	Lan. 7141
		104 Des Prairies St., Quebec, Que.	
Alward, Frederick P	Grad. Sch	Central Y.M.C.A., Montreal	
		344 Frank St., Ottawa, Ont.	
Andrews, Donald	Arts 1	3473 University St., Montreal	Up. 1475
		Stairfoot, Barnsley, Yorks, England	
Angevine, Daniel Murray	Med. 4	308 Prince Arthur St. W., Montreal.	Plat. 7472
		103 Wright St., St. John, N.B.	
Angus, Frederick W	Ap. Sci. 3	240 Drummond St., Montreal	Up. 2012
Anthony, Alan Roy	Arts 3	2026 McGill College Ave., Montreal.	Lan. 8610
		1738 Angus Ave., Vancouver, B.C.	
Appleton, Frances Eilene	Arts 1	634 Old Orchard Ave. Montreal	Wal. 0054J
*Apter, Robert F	Ap. Sci. 3	724 Sherbrooke St. W., Montreal	Up. 4250
Arbuckle, Albert Meldrum	Med. 5	3506 University St Montreal	Up. 0290
		Terrace Cottage, Pictou, N.S.	
Arcand, Louis	Ap. Sci. 1	3650 Lorne Crescent, Montreal	
Archdale, Helen E.	Arts 3	Royal Victoria College Annex, Montreal	Up. 2534
		Stonepitts, Seal, Sevenoaks, Kent England	
Archer, Russell Clifton	Arts 1	3485 McTavish St., Montreal	Up. 9130
		West Lorne, Ont.	
Archibald, Ian Thurston	Arch. 5	4278 Dorchester St., W., Montreal.	West. 5959
Archibald, Wiliam F.	Ap. Sci. 3	3578 University St., Montreal	Up. 9109
		Gardenvale, Que.	
Armitage, Geo. Gordon G.	Arts 1	243 Ballantyne Ave. N., Montreal West, Que.	Wal. 3117
Armstrong, Charles G.	Ap. Sci. 2	3637 University St., Montreal	Plat. 2681
		330 Kingsway, Winnipeg, Man.	
Armstrong, John Edwin	Arts 1	380 Marlowe Ave., Montreal	Wal. 0815W
Armstrong, Linton W.	Theology 1	3506 University St., Montreal	Up. 0290
		Lachute, Que.	
Armstrong, Lucy Amelia B.	Arts 2	2034 Hutchison St., Outremont, Que.	Cres. 8237
		Danville, Que., R.M.D. No. 2	
Armstrong, Violet B.	Arts 2	74 Courcelette Ave., Outremont, Que.	At. 5098
Armstrong, Winifred L. B.	Arts 3	74 Courcellette Ave., Outremont, Que.	At. 5098
Arnold, John Stuart H.	Arts 2	3430 Ontario Ave., Montreal	Up. 3641
Arnold, Leonard Edward	Med. 3	Kannon P.O., St. Lambert Annex, Que.	Cher. 5828
		Montego Bay, Jamaica, B.W.I.	
Arnold, Thomas T.	Com. 4	3430 Ontario Ave., Montreal	Up. 3641
Aronovitch, Michael	Arts 1	63 Duluth Ave. E., Montreal	Bel. 5997W
Asbury, Nowers	Arts 1	18 Sommerville Ave., Westmount, Que.	West. 5528W
Ash, Frances G.	Arts 2	3534 Shuter St., Montreal	Plat. 2997
		624 King Edward Ave., Ottawa, Ont.	
Ashdown, H. K.	Theology	3473 University St., Montreal	Up. 1475
Ashkenazy, Solomon	Ap. Sci. 1	27 Duluth Ave. W., Montreal	
		462 Boyd Ave., Winnipeg, Man.	
Aspler, Isidore	Arts 3	4053 Esplanade Ave., Montreal	Bel. 9458W
Astle, Orma Chambers	Arts 4	298 Hingston Ave., Montreal	Wal. 0872
Astwood, Ernest Millard	Med. 2	304 Prince Arthur St. W., Montreal.	Plat. 3624
		Hamilton, Bermuda, B.W.I.	
Atha, Henry George	Med. 1	791 Shuter St., Montreal	Plat. 6742
		92 Ramsdell St., Groten, Conn.	
Atto, C. H. B.	Theology	3473 University St., Montreal	Up. 1475
Atkinson, Ann	Phys. Ed. 1	3466 University St., Montreal	Up. 3369
		88½ Queen St., St. Catharines, Ont.	
Atkinson, Robert	Theology 1	3506 University St., Montreal	Up. 0290
		Edenderry, Portadown, Ireland	
Aubry, J. A.	Med. 5	3722 Jeanne Mance St., Montreal.	Plat. 2527
		Lancaster, Ont.	
Auld, George	Arts 2	94 Cumberland Ave., Hamilton, Ont.	

*Left early in the Session.

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Austin, Ernest R.	Com. 1	Strathcona Hall, 348 Sherbrooke St. W., Montreal	Lan. 1567
		847 Denman St., Vancouver, B.C.	
Auten, Frank W.	Med. 1	48 Lorne Ave., Montreal	Plat. 4996
		Gaston, Oregon	
Averback, Irving Edward	Arts 1	74 Villeneuve St. W., Montreal	Bel. 0717
Ayers, Harold E.	Com. 4	442 Oxford Ave., Montreal	Wal. 1740
Bacal, Harry Lyon	Med. 3	5394 Jeanne Mance St., Montreal	Cres. 2075
Bacal, Solomon Sidney	Arts 1	5394 Jeanne Mance St., Montreal	Cres. 2075
Backler, Israel S.	Arts 2	5331 Jeanne Mance St., Montreal	Cres. 9859
Bacon, George Stewart	Arts 2	4161 Dorchester St.,Westmount,Que.	West 1494
Bagan, Samuel	Pharm.	325 Edward Charles,Apt. 6,Montreal.	At. 2841F
Baikie, Elizabeth L.	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		Sudbury, Ont.	
Bailey, James Alfred	Arts 1	301 Ballantyne Ave., Montreal West, Que.	Wal. 1409
Bailey, Marjorie	Arts 4	48 Northcliffe Ave., Montreal	Wal. 6368
Baird, Charles C.	Med. 3	3437 Peel St., Montreal	Up. 2031W.
		Chipman, N.B.	
Baird, Robert Cecil	Com. 3	3609 University St., Montreal	Plat. 3464
		18 Young St., Truro, N.S.	
Baker, George Prescott	Com. 2	26 McTavish St., Montreal	Up. 8633
		Yarmouth, N.S..	
Baker, Howard Matthew A.	Com. 1	159 Hutchison St., Montreal	Plat. 0675
Baker, Phyllis May	Arts 3	666 Victoria Ave., Westmount, Que.	West. 3045
Baker, Stephen M.	Ap. Sci. 3	3745 Bassett St., Montreal	Plat. 2851
		23 The Grove, Teddington, Middlesex, Eng.	
Baldwin, William A.	Ap. Sci. 3	3535 Shuter St., Montreal	Plat. 5154
		187 Patterson Ave., Ottawa, Ont.	
Balfour, George H	Com. 2	644 Belmont Ave., Westmount, Que.	West. 3720
Ball, Muriel H	Arts 3	3454 University St., Montreal	Up. 2534
		Magog, Que.	
Ball, William Lee	Arts 2	627 Carlton Ave., Westmount, Que.	West. 2053
Ballantyne, Murray G.	Arts 2	3484 Mountain St., Montreal	Up. 3767
Balleny, John	Com. 3	3506 University St., Montreal	Up. 0290
		5 King St., Grand Falls, Nfld..	
Balmer, Ian Argyle	Med. 2	224 Prince Arthur St. W., Montreal.	Plat. 2589
		Tuxford, Sask..	
Banks, Harold U.	Com. 3	466 Sherbrooke St. W., Montreal	Lan. 5778
		103 Flora St., Ottawa, Ont.	
Barber, Gilbert A.	Dent. 3	166 Mansfield St., Montreal	
		Gatineau Pointe, Que.	
Barclay, Isabel M.	Arts 2	3625 Durocher St., Montreal	Plat. 0778
Barclay, William A.	Com. 1	5417 Esplanade Ave., Montreal	Cres. 2236
Barker, Charles S.	Arts 4 & Med. 1.	230 Walkley Ave., Montreal	Wal. 0899M
Barker, Elliott E.	Med 2	167 Hutchison St., Montreal	Plat. 2396
		Bridgewater, Maine	
Barker, Henry Russell	Arts 1	Apt. 47, 6602 Sherbrooke St. W., Montreal	Wal. 6540
Barlow, E. Mary	Arts P.	112 Arlington Ave., Westmount, Que.	West. 4060
Barlow, Frank A.	Med. 3	468 Sherbrooke St. W., Montreal	Lan. 0646
		53 Washington Pl., Passaic, N.J.	
Barnes, Ferderick G.	Ap. Sci. 3	1487 Mountain St., Montreal	Up. 9655
		Crystal City, Man.	
Baron, Edgar	Arts 1	4649 St. Urbain St., Montreal	Bel. 4287
Baron, Henry	Med. 5	4649 St. Urbain St., Montreal	Bel. 4287
Barr, Donald	Arts 3	3581 University St., Montreal	Plat. 6979
		2102 Scarth St., Regina, Sask.	
Barr, Robert M.	Arts 3	308 Prince Arthur St. W., Montreal.	Plat. 7472
		2102 Scarth St., Regina, Sask..	
Barrett, Russell J.	Ap. Sci. 3	3581 University St., Montreal	Plat. 6979
		1333 North 58th St., West Philadelphia, Pa.	
Barrington, Lois Hope	Arts 3	616 Victoria Ave., Westmount, Que.	West. 3820
Barron, Paul	Med. 3	2054 City Councillors St., Montreal	Lan. 1567
		14 East 115th St., New York, N.Y.	
Barry, Norah V.	Arts 3	143 Strathearn Ave., Montreal West, Que.	Wal. 6742
Barsha, Jacob	Arts 3	5051 St. Urbain St., Montreal	Bel. 1859W

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Barza, David	Med 2	3666 Drolet St., Montreal	East 7430W
Barza, Solomon A.	Pharm.	3666 Drolet St., Montreal	East 7430W
Basken, Olive A. *g*	Arts 3	Royal Victoria College, Montreal	Plat. 0078
		350 Somerset St. W., Ottawa, Ont.	
Baskin, Gertrude T.	Soc. Workers 1	920 Tupper St., Montreal	Up. 2673
Bassen, Frank Albert	Med. 5	2050 Victoria St., Montreal	Lan. 1798
		251 King St. E., St. John, N.B.	
Bassen, Mildred R.	Arts 3	5 Winchester Ave., Westmount, Que.	West 4996
		251 King St. E., St. John, N.B.	
Bauce, Pierce	Ap. Sci. 1		
		18 Marlboro Ave., Ottawa, Ont	
Bavitch, Lazarus	Arts 1	4092 Clarke St., Montreal	Bel. 6633F
Baxter, William J.	Med 4	3561 Lorne Ave., Montreal	Plat. 0938
		Fairville, St. John Co., N.B.	
Baylis, Inez M.	Lib. Sch	3574 University St., Montreal	Up. 2032
Bazin, Alfred R.	Med. 2.	4064 Dorchester St., Westmount, Que.	West. 2165
Beamish, Rahno Mary	Grad. Nurses	Apt. 25, 56 Sherbrooke St. W., Montreal.	Lan. 1942
		16 Sellers Ave., Toronto, Ont.	
Beauchamp, Lillian Dorothy	Arts 3	5462 Tenth Ave., Rose,mount Que.	
Beauchamp, Wilbur I.	Arts 1	5462 Tenth Ave., Rosemount, Que.	
Beaugie, Mavis Louise	Arts 1	382 Durocher Ave.,Outremont, Que	At. 0956
Becket, Ralph Wilson	Arts 1	42 Burton Ave., Westmount, Que.	West. 5975
Bedbrooke, Jack Wilson	Arts 1	112 Percival Ave., Montreal	Wal. 1885
Bedee, Monroe Homer	Ap. Sci. 4	232 Harvard Ave., Montreal	Wal. 7365J
Beeson, Harold G.	Med. 4.	71 Hutchison St., Montreal	Plat. 1273
		Ketchikan, Alaska	
Bell, Dorothy A. D.	Arts 2.	271 Prince Arthur St. W., Montreal.	Plat. 0922
		Box 280, Halifax, N.S.	
Bell, Graham Airdrie	Ap. Sci. 3.	3454 Peel St., Montreal	Up. 6788
		90 James St., Ottawa, Ont.	
Bell, Helen P.	Arts 2.	271 Prince Arthur St. W., Montreal.	Plat. 0922
		Box 280, Halifax, N.S.	
Bell, John Alexander	Com. 1.	3454 Peel St., Montreal	Up. 6788
		Chateau Laurier Hotel, Ottawa, Ont.	
Bell, Robert B.	Dent. 4	363 Melville Ave., Westmount, Que.	West. 0375
Bellew, Leo Thomas F.	Ap. Sci. 4.	191 Querbes Ave., Outremont, Que.	Cres. 2546
Bellman, Irving	Arts 3.	3875 Colonial Ave., Montreal	Plat. 3743
Belnap, Celeste V.	Arts 1.	558 Roslyn Ave., Westmount, Que.	West 1909
Benard, Frederick E.	Ap. Sci. 2.	4877 Park Ave., Montreal	Bel. 2568W
		Ferrocarril 59, Mixcoac D.F., Mexico	
Benjamin, Archie.	Ap. Sci. 4	2688 Hutchison St., Montreal	At. 6652W
*Bennett, Almerin T.	Ap. Sci. 3	104 Sherbrooke St. W., Montreal.	Plat. 0716
		323 Davenport Rd., Toronto, Ont.	
Bennett, George Francis.	Ap. Sci. 1	3550 Shuter St., Montreal	Plat. 6452
		396 Lyon St., Ottawa, Ont.	
Bennett, Margaret.	Lib. Sch.	3660 Lorne Crescent, Montreal.	
		5773 Fleming St., Vancouver, B.C.	
Bennett, Mary Isobel	Arts 3.	119 Northcliffe Ave., Montreal	Wal. 2906
Bennett, Robert D.	Arts 1.	175 Mount Royal Ave., Montreal.	Bel. 2696J
Benning, Paulette	Arts 3.	5619 Park Ave., Outremont, Que.	Cres. 7963
Benny, Marguerite I.	Lib. Sch.	3500 Durocher St., Apt. 2, Montreal.	Plat. 0418
		Box 86, Joliette, Que.	
Benny, Walter R.	Ap. Sci. 2	3550 Shuter St., Montreal	Plat. 6452
		85 Bellwood Ave., Ottawa, Ont.	
Ber, Abraham	Ap. Sci. 1	3875 Henri Julien Ave., Montreal.	East 6698J
Bercovici, Ethel	Arts 1.	749 Outremont Ave.,Outremont, Que.	At. 1822W
Bercovitch, Myer Ralph	Arts 3.	4643 St. Urbain St., Montreal	Bel. 1507F
Bercovitz, George David	Arts 1.	47 Joyce Ave., Montreal	At. 5726
Bercu, George.	Arts 2.	4458 De Bullion St., Montreal	
Berenstein, Leslie.	Ap. Sci. 2	5826 Park Ave., Montreal	Cres. 4270
Berger, Bernard A.	Ap. Sci. 2	4305 Esplanade Ave., Montreal	Bel. 3737
Berger, Irvin Jacob	Arch. 1.	315 Pine Ave. W., Montreal	Up. 2991
		2701 Grand Concourse, New York, N.Y.	
Berger, Julius.	Grad. Sch.	102 Grey Ave., Montreal	
Berger, Samuel A.	Arts 1.	4176 City Hall Ave., Montreal	Bel. 4960
Bergithon, Carl	Arts 2.	Apt. 8, 14 Selkirk Ave., Montreal.	Up. 6347
Berlin, Saul Schnair	Arts 4.	Apt. 3, 5135 Park Ave., Montreal.	
Berlind, Esther G.	Arts 2.	336 Grosvenor Ave.,Westmount,Que.	West. 3660

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Berlind, Evelyn	Arts 3	462 Elm Ave., Westmount, Que.	West. 0377
Berlind, Melvyn N.	Med. 5	462 Elm Ave., Westmount, Que.	West 0377
Berlinguet, Lorne F. C.	Med 1	95 Hutchison St., Montreal	Plat. 5235
		111 Laviolette Ave., Three Rivers, Que.	
Bernstein, Erik Lennard	Arts 1	Apt. 2, 809 Shuter St., Montreal	Plat. 0919
Bernstein, J. Clarence	Med. 5	5 Tara Hall Ave., Montreal	Plat. 3139
Bernstein, Marcel	Arts 4	5652 Esplanade Ave., Montreal	
Berry, Eva Rosamond	Arts 1	2203 Hutchison St., Montreal	
		Dunrobin, Ont.	
Berzan, Tessa	Arts P	7 Nelson Ave., Outremont, Que.	At. 5950
Betts, Randolph Cotgrave	Arch. 5	738 Sherbrooke St. E., Montreal	Amh 8471
Bianco, Alphonse	Arts 1	22 Notre Dame St., Lachine, Que.	Lach. 875
		32 Case St., Hamilton, Ont.	
Bickle, John Austin T.	Med. 4	1239 Drummond St., Montreal	Up. 2879
		Ladysmith, B.C.	
Biggar, H. William	Com. 1	3609 University St., Montreal	Plat. 3464
		112E. San Rafael St., Colorado Springs, Colo.	
Billette, Roger	Ap. Sci. 1	379 East Roy St., Montreal	
		Valleyfield, Que.	
Billingsley, Lawrence W.	Arts 1	628 Grosvenor Ave., Westmount, Que.	West. 5102
Binmore, Mary Elizabeth	Arts 4	148 Northcliffe Ave., Montreal	Wal. 5478
Binnie, James Corneil	Arts 3	563 Grosvenor Ave., Westmount, Que.	West. 4124
Binns, Eleanor C.	Phys. Ed. 1	223 Strathearn Ave., Montreal West, Que	Wal. 1170
Birnie, Garfield S.	Com. 1	603 Lansdowne Ave., Westmount, Que.	West. 2203
Bishop, Hazeldine S.	Arts 3	848 McEachran Ave., Outremont, Que.	At. 7901W
Bishop, Marguerite R.	Arts 2	848 McEachran Ave., Outremont, Que.	At. 7901W
Bishop, William Sheldon	Arts 2	3506 University St., Montreal	Up. 0290
		Bay Roberts, Nfld.	
Bissett, Alice MacGowan	Grad. Sch.	314 Broadway Ave., Lachine, Que.	
Bisson, Margaret M.	Arts 4	670 Northmount Ave., Montreal	At. 4153
Bisson, Russell D. A.	Med. 2	224 Prince Arthur St. W., Montreal.	Plat. 2589
		Rossland, B.C.	
Bissonnett, Mary E.	Arts 1	Royal Victoria College, Montreal.	Plat. 0078
		Rock Island, Que.	
Blachford, Henry Edward	Ap. Sci. 2	7 Hudson Ave., Westmount, Que.	West. 4735
		Rosemere, Que	
Black, Catharine A.	Arts 2	336 Brock Ave., Montreal West, Que.	Wal. 2345
Black, Fay	Phys. Ed. 1	14A St. Louis Square, Montreal	Lan. 9507
Black, I. Willa	Arts 1	625 Murray Ave., Westmount, Que.	
Blair, Allan Walker	Med. 5	317 Pine Ave. W., Montreal	Up. 8731
		2257 McIntyre St., Regina, Sask.	
Blair, Donald L.	Arch. 1	3605 Univesity St., Montreal	Plat. 0354
		Aylmer Road, Que.	
Blakeley, George F.	Com. 2	376 Redfern Ave., Westmount, Que.	West. 8435
Blau, Abraham	Med. 2 & Grad. Sch.	408 Wiseman Ave., Outremont, Que.	At. 7603
Blemer, John W.	Med. 3	317 Pine Ave. W., Montreal	Up. 8731
		1047 Cragmont, Ave., Berkeley, Calif.	
Bliss, Mary F.	Grad. Nurses	362 Peel St., R.V.H. Club, Montreal.	Up. 2620
		Nipigon, Ont.	
Blond, Harry H.	Med. 2	3927 Laval Ave., Montreal	East 5232
Blond, Irwin B.	Arts 4	3927 Laval Ave., Montreal	East 5232
Bloom, Joseph	Arts 2	3951 De Bullion St., Montreal	Lan. 9309
Bloomfield, Dorothy Ruth	Arts 4	4019 Dorchester St. W., Montreal	West. 4432
Blumberg, Perry	Med. 1	3479 Shuter St., Montreal	Plat. 5410
		720 West End Ave., New York, N.Y.	
Blumenstein, J. H.	Law 3	3766 Clarke St., Montreal	Plat. 1917
Blumenthal, Aaron H.	Arts 4	4077 St. Urbain St., Montreal	Bel. 0311J
Blundell, Stanley F.	Med. 1 & Arts P.	3710 Jeanne Mance St., Montreal	Plat. 1818
Blustein, David	Pharm	4437 Colonial Ave., Montreal	Bel. 1583J
Boak, Andrew Charles	Ap. Sci. 2	1015 Sherbrooke St. W., Montreal.	West 7525
Bodger, R.	Theology	3473 University St., Montreal	Up. 1475
		1 Lime Tree Ave., Peterborough, England	
Bogante, Jack Ralph	Law 2	6618 Papineau Ave., Montreal	Cal. 4783J

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Boissonnault, Bertrand O	Ap. Sci. 2	226 Querbes Ave., Outremont, Que.	At. 2890W
Bolton, Arthur H.	Arts 1	577 Roslyn Ave., Westmount, Que.	West. 1057
Bonar, Jean Margaret	Arts 1	177 Prud'homme Ave., Montreal	Wal. 5806
Boness, Jacob	Dent. 4	4063 Esplanade Ave., Montreal	Bel. 4008W
Bondar, H. Kelliher	Arts 4	724 Sherbrooke St. W., Montreal	Up. 4250
		1826 East 9th St., Brooklyn, N.Y.	
Bonthron, Karl J. A.	Ap. Sci. P.	85 Osborne St., Montreal	
		18 Radmansgatan, Stockholm, Sweden	
Booth, Leonard	Arch. 4	2022 University St., Montreal	Lan. 7767
Boright, Gilbert W.	Com. 2	3485 McTavish St., Montreal	Up. 9130
		140 Champlain St., St. Johns, Que.	
Borland, Vera R.	Phys. Ed. 1	3466 University St., Montreal	Up. 3369
		847 University Drive, Saskatoon, Sask.	
Boswell, Henry Aird	Med. 2	317 Pine Ave. W., Montreal	Lan. 4858
		Wynatskill, N.Y.	
Bouchard, Valmer Dudley	Arch. 2	Central Y.M.C.A., Montreal	Up. 6500
		91 Peel St., Sherbrooke, Que.	
Boudreau, Eugene C.	Arts 1	Apt. 7, 3651 Durocher Ave., Montreal	
Boughton, George W.	Theology	3485 McTavish St., Montreal	Up. 9130
		Hull, Que.	
Boulton, Arthur Maxwell	Arts 2	3605 University St., Montreal	Plat. 0354
		5 College Court, Quebec, Que.	
Boulton, Percy F.	Theology 2	3506 University St., Montreal	Up. 0290
		Box 509, Lennoxville, Que.	
Bourne, Charles C.	Arts 3	953 Dorchester St. W., Montreal	Up. 3616
Bourne, Frederick M.	Arts 1	953 Dorchester St. W., Montreal	Up. 3616
Bowers, Joan E.	Phys. Ed. 2	3466 University St., Montreal	Up. 3369
		224 High Park Ave., Toronto, Ont.	
Bowles, William S.	Ap. Sci. 2	No. 7 Park Manor, 44 Academy Rd.,	
		Westmount, Que.	West. 7473
Boyce, Harry M.	Com. 3	3429 Peel St., Montreal	Up. 5947
		755, 7th Ave. E., Vancouver, B.C.	
Boyd, David E.	Ap. Sci. 4	122 George V. Ave., Lachine, Que.	La. 1088W
Boyd, Herbert William	Com. 4	122 George V. Ave., Lachine, Que.	La. 1088W
Boyer, Raymond	Med. 2	3552 Mountain St., Montreal	Up. 2811
Braunstein, Moses M.	Med. 3	1103 Laurier Ave. W., Montreal	At. 7454
Brabander, Joachim O. W.	Med. 1	381 Maplewood Ave., Montreal	At. 1275
Bradford, Andrew C.	Med. 5	3457 Shuter St., Montreal	Plat. 0370
		Edmonton, Alta.	
Bradley, Joseph G.	Com. 1	81 Sherbrooke St. W., Montreal	Plat. 1245
		Red Mill, Que.	
Bradley, Marjorie	Arts 3	Royal Victoria College, Montreal	Plat. 0078
		Magog, Que.	
Brain, Cecil	Ap. Sci. 4	3506 University St., Montreal	Up. 0290
		Grand Falls, Nfld.	
Brand, Margaret M.	Arts 1	5211 LaSalle Blvd., Verdun, Que.	York 5554J
Brandes, Jack Saul	Arts 3	113 Laurier Ave. W., Montreal	
Bray, Alton C.	Ap. Sci. 4	324 Edward Charles Ave., Outre-	
		mont, Que.	At. 7109
Brazil, C. C.	Theology	3473 University St., Montreal	Up. 1475
		Port aux Basques, Nfld.	
Breakey, Andrew	Arts 1	791 University St., Montreal	
		Chaudier House, Breakeyville, Que.	
Bregent, Marcelle M.	Arts P.	370 Wiseman Ave., Montreal	At. 5069
Brennan, Mary Florence	Arts 1	73 Hallowell Ave., Westmount, Que.	West. 5652
Brewer, Wilfred R.	Med. 3	320 Prince Arthur St. W., Montreal	Plat. 0761
		279 State St., Presque Isle, Maine	
Brierley, James G.	Law 2 & Grad. Sch.	623 Sydenham Ave., Westmount, Que.	West. 0594
Brifman, Jack S.	Pharm.	4055 St. Lawrence Blvd., Montreal	Bel. 0573F
Brink, Robert Harold	Med. 5	468 Sherbrooke St. W., Montreal	Lan. 0646
		125 N. Main St., Cortland, N.Y.	
Brisbane, M. Lyle	Arts 1	452 Strathcona Ave., Westmount, Que.	
Brock, Annie G.	Grad. Sch.	451 Sherbrooke St. W., Montreal	
Brock, Constance M.	Arts 4	610 Clarke Ave., Westmount, Que.	West. 7370
Brock, Hugh Maurice H.	Ap. Sci. 4	316 Pine Ave. W., Montreal	Plat. 4279
Broderick, George N.	Arts 1	68 Draper Ave., Montreal	Wal. 4307
Brodhead, Edgar	Com. 2	1 Rosemount Ave., Westmount, Que.	West. 5232
Brodie, Edgar William	Com. 3	845 University St., Montreal	Plat. 2681
		118 St. Joseph St., Dorval, Que.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Brodie, Maurice	Med. 5	724 Sherbrooke St. W., Montreal 132 Driveway, Ottawa, Ont.	Up. 4250
Bronfman, Zella	Arts 1	49 Rosemount Ave., Westmount, Que.	West. 7781
Brooks, Caleb E.	Med. 5	320 Prince Arthur St. W., Montreal 494 Driveway, Ottawa, Ont.	Plat. 0761
Brooks, Eleanor Irene	Arts 4	473 Clarke Ave., Westmount, Que.	West. 4998
Brooks, Paul Lester	Med. 1	548 Sherbrooke St. W., Montreal 60 Clinton St., Portland, Maine	Up. 5942
Brooks, Phyllis Edith	Arts ?	473 Clarke Ave., Westmount, Que.	West. 4998
Brooks, Randall H.	Med. 1	2028 University St., Montreal Colebrook, N.H.	Lan. 6052
Brosseau, Joseph G.	Ap. Sc. 1	309 Belmore Ave., Montreal	Wal. 3006W
Brotman, Herbert L.	Med. 3	4244 St. Urbain St., Montreal	Bel. 9799
Brown, Allan Taylor	Arts 1	348 Sherbrooke St. W., Montreal Carleton Place, Ont.	Lan. 1567
Brown, Burton Stanley W.	Arts 2	242 Clifton Ave., Montreal	Wal. 0554
Brown, Collingwood B.	Ap. Sci. 3	152 Easton Ave., Montreal West, Que.	Wal. 3138
Brown, Edward E.	Arts 1	175 Villeneuve St., Montreal	Bel. 4429W
Brown, Fred Thorburn	Arts 1	3520 University St., Montreal Asbestos, Que.	
Brown, George, Jr.	Arts 3	40 St. Luke St., Montreal	Up. 9553W
Brown, James Alex.	Ap. Sci. 2	598 Grosvenor Ave., Westmount, Que.	West. 4886
Brown, James L.	Med. 5	144 Hutchison, St. Montreal	Plat. 4093
Brown, John L.	Com. 1	2302 Scarth St., Regina, Sask. 3637 University St., Montreal	Plat. 2681
Brown, Kenneth H.	Arts 3	181 Crescent Rd., Toronto, Ont. 397 Harvard Ave., Montreal	Wal. 0353
Brown, Lyla Irene	Med. 3	242 Clifton Ave., Montreal	Wal. 3731
Brown, Martha S.	Arts 3	40 St. Luke St., Montreal	Up. 9553W
Brown, M. Gale	Arts 2	261 Strathearn Ave., Montreal West. Que.	Wal. 0013
Brown, R. C.	Theology	3473 University St., Montreal	Up. 1475
Brown, Thomas	Ap. Sci. 2	234 Milton St. S., Sarnia, Ont. 5720 First Ave., Rosemount, Que.	Cheer. 6306
Brown, Walter F.	Ap. Sci. 3	175 Villeneuve St., Montreal	Bel. 4429W
Brown, William	Arts P.	2445 Davidson St., Montreal Glasgow, Scotland	Clair 0990W
Browne, John S. Lyon	Med. 4	5 Burton Ave., Westmount, Que.	West. 3032
Brownell, Harold Ross	Ap. Sci. 3	133 Hutchison St., Montreal	Plat. 6515
Brownrigg, Garrett M.	Med. 1	215 Chestnut St., Winnipeg, Man. 3637 Oxenden Ave., Montreal	Plat. 5707
Brownrigg, Leslie W.	Med. 1	50 Leslie St., St. John's, Nfld. 10 Cherrier St., Montreal	East 1956
Brueton, Kenneth N.	Arts P.	Chamcook, Char. Co., N.B. 556 Sixth Ave., Verdun, Que.	
Bruger, Moses	Med. 4 & Grad. Sch.	4335 Clarke St., Montreal	Bel. 6756F
Bruker, Samuel	Arts 4	166 Villeneuve St. W., Montreal	Bel. 6816
Buchanan, Edward T.	Ap. Sci. 4	299 Clifton Ave., Montreal	Wal. 1456
Budden, Arthur Napier	Ap. Sci. 4	1509 Mackay St., Montreal	Up. 2102
Budden, William H.	Com. 3	1509 Mackay St., Montreal	Up. 2102
Budge, Edgar C., Jr.	Com. 2	23 Church Hill, Westmount, Que.	West. 0313
Burk, Christopher A.	Com. 3	3613 St. Urbain St., Montreal	Plat. 5364
Burke, George T.	Med. 2	317 Pine Ave. W., Montreal 709 Gladstone Ave., Detroit, Mich.	Up. 8731
Burke, Irving W.	Med. 1	348 Sherbrooke St. W., Montreal Market Hill, St. George, Barbados, B.W.I.	Lan. 1567
Burnett, Dillon	Arts 4	744 Atwater Ave., Montreal Barbados, B.W.I.	West. 6608
Burns, James Henry	Arts 1	18 Ballantyne Ave. S., Montreal West, Que.	Wal. 1275
Burns, Ralph M.	Med. 4	2022 Union Ave., Montreal Houlton, Maine	Lan. 9436
Burpee, Sarah Thompson	Arts 1	4430 St. Catherine St. W., West- mount, Que.	West. 0230
Bursey, Harold R.	Arts 1	10448 Blvd des Ormes, Montreal	Cal. 3330J
Burton, Fred R.	Grad. Sch.	3437 Peel St., Montreal Waterville, Que.	Up. 2031W
Burton, Garland G.	Arts P	301 Fortune St., Montreal	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Burton, Robert J.	Theology 2	3506 University St., Montreal La Cie, Nfld.	Up. 0290
Bush, Lucy C.	Arts 1	3547 University St., Montreal Buffalo, N.Y.	Plat. 1352
Butler, Albert Alex.	Arts 1	5683, 7th Ave., Rosemount, Que.	Clair. 4348W
*Butler, Gladys H.	Arts P	749A Champagneur Ave., Outremont, Que.	At. 3864W
Butler, Howard C.	Ap. Sci. 2	3550 Shuter St., Montreal 48 Clarendon Ave., Ottawa, Ont.	Plat. 6452
Butler, Keith H.	Grad. Sch.	Central Y.M.C.A. Montreal Armdale, Halifax, N.S.	
Butlin, Claude Marsh	Ap. Sci. 2	845 University St., Montreal Abasolo No. 8 Popotla, Mexico, D.F.	Plat. 2681
Butt, Herbert Mercer	Arts 4 & Dent. 1	3506 University St., Montreal Harbour Grace, Nfld.	Up. 0290
Buxton, Kenneth S.	Grad. Sch.	1229 Mountain St., Montreal 27 William St., Worcester, Mass.	
Bydwell, H. Burton	Law 1	359 Kensington Ave., Westmount, Que.	West. 4541
Calder, Alice D.	Arts 1	210 Westmount Blvd., Westmount, Que.	West. 2029
Calder, Frank.	Ap. Sci. 2	186 Grand Blvd., Montreal	Wal. 3774
Calder, James Allan	Arts 2	4084 Tupper St., Montreal	West. 3082
Calder, John Wm.	Law 1	210 Westmount Blvd., Montreal St. Peters, N.S.	West. 2029
Caldwell, Robert J.	Med. 5	3477 Shuter St., Montreal 10 Halls St., Moncton, N.B.	Plat. 2414
Calhoun, Robert B.	Arts 2	544 Sherbrooke St. W., Montreal 449 Colorado Ave., Bridgeport, Conn.	Up. 2264
Call, Russell B.	Com. 1	3429 Peel St., Montreal 88 Quebec St., Sherbrooke, Que.	Up. 5947
Calland, Norman	Theology	3473 University St., Montreal 16 Front Row, Eldon, Bishop Auckland, Durham, Eng.	Up. 1475
Camerlain, Homer H.	Com. 4	113 St. Lawrence Ave., St. Lambert, Que.	St. Lam. 316M
Cameron, Alex James	Ap. Sci. 1	912 Comte St., Montreal	Up. 2690
Cameron, Ernest R.	Arts 1	60 Hutchison St., Montreal	Plat. 0855
Cameron, George S.	Arts 1	561 Victoria Ave., St. Lambert, Que.	St. Lam. 1093
Cameron, John Ross	Arts 2	609 Clarke Ave., Westmount, Que.	West. 2884
Cameron, Kenneth Neill	Arts 1	2971 Notre Dame St. E., Montreal	Clair. 2344
Cameron, Margaret E. B.	Med. 5	384 Lansdowne Ave., Westmount, Que.	West. 2531
Campbell, Barbara	Grad. Nurses	Royal Victoria Hospital, Montreal	
Campbell, Chester R.	Med. 1	3569 Lorne Ave., Montreal 9469 Springfield Blvd., Queens Valley, L.I., N.Y.	Plat. 5132
Campbell, Elizabeth G.	Arts 1	3530 University St., Montreal Roslyn Road, Winnipeg, Man	
Campbell, Gordon Douglas	Arts 4	1507 Crescent St., Montreal	Up. 1150
Campbell, Herbert Noel.	Ap. Sci. 3	609 Victoria Ave., Westmount, Que.	West. 4475
Campbell, Mary Lodivia	Arts 1	609 Victoria Ave., Westmount, Que.	West 4475
Campbell, Virginia J.	Arts 4	Royal Victoria College, Montreal Windsor Mills, Que.	Plat. 0078
Campbell, Wesley	Theology	3506 University St., Montreal Main St., Sydney Mines, N.S.	Up. 0290
Campbell, Wm. B	Grad. Sch.	209 Coolbrook Ave., Montreal	
Campbell-Brown, Hugh I.	Med. 4	293 Sherbrooke St. W., Montreal	Plat. 1640
Cannell, M. Helen	Arts 1	117 Aberdeen Ave., Westmount, Que.	West. 6406
Cantlon, William Norman	Ap. Sci. 2	4400 Western Ave., Westmount, Que.	West. 8593
Cape, Gordon Edward	Ap. Sci. 2	45, 5th Ave., Lachine, Que.	Lach. 120J
Cape, John M.	Arts 1	1 Redpath Crescent, Montreal	
Caplan, Benjamin	Arts 2	5651 Esplanade Ave., Montreal	Cres. 6007
Caplan, Joseph S.	Law 2	4583 Jeanne Mance St., Montreal	Bel. 3568J
Caplan, Samuel L.	Law 3	173 De l'Epee Ave., Outremont, Que.	At. 4609

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Carbray, F. J.	Ap. Sci. 2	60 Laurier St. W., Montreal	Bel. 6679
Card, Lorne Campbell	Med. 2	320 Prince Arthur St. W., Montreal Melville, Sask.	Plat. 0761
Cardinal, J. Ayme	Ap. Sci. 1	2504 Gouin Blvd. W., Montreal	Bywater 1258W
Cardonsky, Mary	Grad. Sch.	1635 Hutchison St., Montreal	
Carin, Moses A.	Pharm.	5022 Clarke St., Montreal	Bel. 3217W
Carl, Selma C. E.	Grad. Sch.	1050 Tupper St., Montreal	
Carlisle, James	Ap. Sci. 2	465 Lansdowne Ave., Westmount, Que.	West. 5658
Carlisle, Thomas H.	Arts 1	465 Lansdowne Ave., Westmount, Que.	West. 5658
Caron, Aileen Marie	Arts 1	168 St. Catherine Rd., Outremont, Que.	At. 0004
Caron, Raymond,	Arts 4	168 St. Catherine Rd., Outremont, Que.	At. 0004
Carpenter, Gilbert B	Grad. Sch	756 University St., Montreal 1107, 33rd Ave. W., Vancouver, B.C.	
Carpenter, Mary K.	Lib. Sch.	459 Strathcona Ave., Westmount, Que.	
Carroll, James R.	Med. 1	62 Favard St., Montreal	York 3139J
Carroll, Lovell Caverhill	Arts 3	547 Lansdowne Ave., Montreal	West. 0688
Carson, Elmer Frederick	Com. 3	211 Main Road, Dorval, Que.	
Carter, Alfred Shirley	Com. 2	506 Old Orchard Ave., Montreal	Wal. 2789W
Carter, Beatrice M. L.	Arts 4	3562 Drummond St., Montreal	Up. 5569
Carter, Eve G.	Arts 1	853 Durocher Ave., Outremont, Que.	
Carter, Frances M.	Arts 2	155 Querbes Ave., Outremont, Que.	Cres. 2698
Carter, Neal M.	Grad. Sch.	3558 Lorne Ave., Montreal	
Casey, Edward M. R.	Med. 5	328 Sherbrooke St. W., Montreal Milltown, N.B.	Lan. 7141
Casey, Patrick E. E.	Arts 1	282 Regent Ave., Montreal	Wal. 2876F
Casey, Paul C. C.	Law 3	28 Hutchison St., Montreal	Plat. 3517
Casgrain, J. P. B. C.	Arts P	910 Dorchester St. W., Montreal	Up. 1778
Casgrain, John V.	Law 1	910 Dorchester St. W., Montreal	Up. 1778
Casselman, Jean	Soc. Workers 2	345 Ballantyne Ave. N., Montreal West, Que. Chesterville, Ont.	Wal. 1729
Casselman, Archie B.	Theology	3485 McTavish St., Montreal Finch, Ont.	Up. 9130
Castle, Stephen	Ap. Sci. 2	900 Tupper St., Apt. 1, Montreal 1010 Welland Ave., Niagara Falls, Ont.	Up. 9567
Castle, William F.	Ap. Sci. 4	Strathcona Hall, Montreal 1010 Welland Ave., Niagara Falls, Ont.	Lan. 1567
Chaikin, Harold S	Ap. Sci. 1	200 Murray St., Montreal	Main 0913
Chait, Rachel	Arts 3	614 Durocher Ave., Outremont, Que.	At. 4269W
Challies, George S.	Arts 1	8 Grove Park, Westmount, Que.	West. 6562
Chalmers, William	Grad. Sch.	3456 Shuter St., Montreal 936, 17th Ave. E., Vancouver, B.C.	
Chambers, Robert C.	Ap. Sci. 1	324 8th St. E., North Vancouver, B.C.	
Chapleau, Jefferson A.	Arch. 1	2064 Mansfield St., Montreal Alexandra Hotel, Ottawa, Ont.	Lan. 6825
Chapman, Edith	Arts P	743 Durocher Ave., Outremont, Que.	Cres. 3373
Chaput, Leandre A.	Com. 1	3512 Durocher St., Montreal	Plat. 1318
Charland, Loretto	Grad. Nurses	508 Harvard Ave., Montreal	Wal. 6593
Chase, Leonard W.	Arts 2	4266 Western Ave., Westmount, Que. Sheldon, Vermont	West. 5258
Cheasley, Clifford H.	Arts 4	1422 Joliette St., Montreal	
Cheifetz, Harry Dickman	Med. 2	5307 Esplanade Ave., Montreal	Cres. 8812
Cheney, Anna E.	Arts 1	Royal Victoria College, Montreal Mountain, Ont.	Plat. 0078
Cherpin, Simeon	Dent. 4	88 Rue des Dames, Paris, France	
Chesley, Archibald R.	Arts 4	328 Sherbrooke St. W., Montreal Coaticook, Que.	
Chipman, Sidney S.	Med. 5	6 Hutchison St., Montreal 95 Coburg St., St. John, N.B.	Plat. 1649
Chipman, William Wainwright	Arts 3	142 Cote des Neiges Rd., Montreal	Up. 8636
Chisholm, Colin B.	Med. 4	3745 Bassett St., Montreal 168 Niagara St., St. Catharines, Ont.	Plat. 2851

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Chisholm, Kenneth G.	Ap. Sci. 3	438 Claremont Ave., Montreal Ottawa, Ont.	West. 8083J
Christie, Harry Robert	Med. 5	42 St. Mark St., Montreal 9930, 89th Ave., Edmonton, Alta.	Up. 7330
Christie, Lillian Hunter	Phys. Ed. 1	201 The Boulevard, Westmount, Que. 179 St. Paul Ave., Brantford, Ont.	
Christmas, William R.	Arts 3	65 Columbia Ave., Westmount, Que.	West. 2526
Church, Chas. Basil G.	Med. 1	3637 University St., Montreal 14 Powell Ave., Ottawa, Ont.	Plat. 2681
Church, F. Emma	Arts 2	737 Sherbrooke St. W., Montreal	Up. 4541
Church, Harry Noel	Com. 1	3637 University St., Montreal 14 Powell Ave., Ottawa, Ont.	Plat. 2681
Ciley, John Howard	Arts 3	Apt. 314, 26 Pierce St., Montreal Way's Mills, Que.	Up. 5184
Clare, Frederick C.	Com. 4	348 Sherbrooke St. W., Montreal 231 Queen St., Preston, Ont.	Lan. 1567
Clarholm, Victor	Med. 2	107 Fort St., Montreal	Up. 3496
Clark, Albert Wm.	Arts 1	91 Durocher St., Montreal Manawagonish Rd., Fairville, N.B.	Plat. 5430
Clark, Alan Christie	Com. 4	517 Clarke Ave., Westmount, Que.	West. 2255
Clark, Charles Wm.	Ap. Sci. 1	3667 Mance St., Montreal Albion Hotel, Sherbrooke, Que.	
Clark, Doris Christina	Arts 2	Apt. 3, 779 St. Catherine St. W., Montreal	Up. 4526
Clark, James F.	Com. 2	1487 Mountain St., Montreal 2005, 16th Ave. W., Vancouver, B.C.	Up. 9655
Clark, James Reid	Ap. Sci. 1	2054 Victoria St., Montreal 102 Grant Ave., Hamilton, Ont.	Lan. 8549
Clark, Marion Isabel	Grad. Nurses	Royal Victoria Hospital, Montreal 132 Oxford St., Halifax, N.S.	Up. 2620
Clark, Sybil Enid C.	Soc. Workers 1	Apt. 3, 2054 Victoria St., Montreal 102 Grant Ave., Hamilton, Ont.	Lan. 8549
Clarke, Frederick B.	Com. 1	111 Wolseley Ave., Montreal West.	Wal. 0173
Clarke, F. Ernest	Ap. Sci. 3	55 Brock Ave., Montreal West, Que.	Wal. 5157
Clarke, George F.	Ap. Sci. 1	348 Sherbrooke St. W., Montreal Worthy Park, Ewarton, Jamaica, B.W.I.	Lan. 1567
Clarke, Owen M.	Ap. Sci. 1	348 Sherbrooke St. W., Montreal Worthy Park, Ewarton, Jamaica, B.W.I.	Lan. 1567
Clay, Clement C.	Med. 1	3506 University St. Montreal 190, 5th St. N.W., Atlanta, Ga.	Up. 0290
Clement, Eugenie	Arts 3	3529 Shuter St., Montreal Angers, Que.	Plat. 4059
Coate, M. Jane	Phys. Ed. 2	3622 Lorne Crescent, Montreal 142 Victoria Ave., Chatham, Ont.	Plat. 1588
Coates, H. Winifred	Arts 4	Royal Victoria College, Montreal Richmond, Que.	Plat. 0078
Cobbett, Stuart A.	Com. 1	499 Oxford Ave., Montreal	Wal. 0874
Coblentz, M.	Arts 3	5923 Clarke St., Montreal	Cres. 8241
Coddington, Rupert D.	Med 3	3642 St. Famille St., Montreal 914 Metchosin St., Victoria, B.C.	Plat. 4717
Code, C. Winifred	Arts 3	Royal Victoria College, Montreal 548 Gilmour St., Ottawa, Ont.	Plat. 0078
Cohen, Abraham I. F.	Com. 1	4638 Jeanne Mance St., Montreal	Bel. 1264
Cohen, Arthur E.	Arts 1	571 Grosvenor Ave., Westmount, Que.	West. 1544
Cohen, Bernard B.	Arts 4	5297 Jeanne Mance St., Montreal	Bel. 2304M
*Cohen, Celia	Arts 1	5241 Waverley St., Montreal	Cres. 6173
Cohen, Ethel Jetta	Soc. Workers 2	5297 Jeanne Mance St., Montreal	Cres. 1538
*Cohen, Frances	Soc. Workers	1525A Hutchison St., Montreal	At. 3629M
Cohen, Gertrude	Arts 3	4683 Jeanne Mance St., Montreal	Bel. 1264
Cohen, Harold	Arts 4 & Med. 1	4009 Henri Julien St., Montreal	East 4447
Cohen, Isadore	Arts 3	808 Cote St. Antoine Rd., Montreal	Wal. 4138
Cohen, Joseph Maxwell	Arts 1	4863 Esplanade Ave., Montreal	
Cohen, Leonard E.	Arts 1	1557 Hutchison St., Montreal 2 Crescent Apts., Pembroke, Ont.	At. 5525W
Cohen, Lily	Arts 3	3466 City Hall Ave., Montreal	Lan. 6646
Cohen, Lionel	Med. 2	3595 St. Famille St., Montreal	Plat. 3718
Cohen, Marian	Soc. Workers 1	808 Cote St. Antoine Rd., Montreal	Wal. 4138

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Cohen, Morris	Arts 2	1214 Lajoie Ave., Outremont, Que.	At. 0811
Cohen, Riva	Arts 1	571 Grosvenor Ave., Westmount, Que.	West. 1544
Cohen, Sylvia	Arts 1	25 Rosemount Ave., Westmount, Que.	West. 5189
Cohen, William	Arts 3	3595 St. Famille St., Montreal	Plat. 3718
Colby, Lucy F.	Com. 1	1 Rosemount Ave., Westmount, Que.	West. 1013
Cole, James Maitland	Ap. Sci. 4	800 Grosvenor Ave., Westmount, Que.	West. 5082
Cole, Thomas M.	Med. 2	468 Sherbrooke St. W., Montreal	Lan. 0646
		Newman, Georgia	
Coleman, Sheldon W.	Ap. Sci. 4	775 Sherbrooke St. W., Montreal	Up. 2143
		Montpelier, Vt.	
Coleman, Chas. L.	Grad. Sch.	3454 Peel St., Montreal	Up. 6788
		Brooklyn, N.Y.	
Collard, Edmund G.	Arts 1	390 West Hill Ave., Montreal	Wal. 1707
Collie, Amy Milne	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		Box 157, Montmagny, Que.	
Collin, Paul Emile	Ap. Sci. 3	104 Sherbrooke St. W., Montreal	Plat. 0716
		60 Ste. Cecile St., Trois Rivieres, Que.	
Collins, Fred G.	Arts 1	453 Wiseman Ave., Outremont, Que.	At. 2633
Collins, Gerald Mullen	Com. 1	446 Lansdowne Ave., Westmount, Que.	West. 3635
Collins, Isabel R.	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		15 Rosedale Ave., Ottawa, Ont.	
Collins, Thomas G.	Ap. Sci. 2	10569 St. Charles Ave., Ahuntsic, Que.	Cal. 1866W
		14 River Rd., Eastview, Ont.	
*Columbia, B. Joseph	Pharm.	1438 Mackay St., Montreal	Up. 1236
		2 Grosvenor Place, Wellington Rd., Cork, Ireland	
Conklin, Harold E.	Com. 1	1385 Bernard Ave., Montreal	At. 6252J
Connell, Frederick R.	Med. 2	3524 University St., Montreal	Up. 9173
		204 King St. E., St. John, N.B.	
Conner, Howard Arthur D.	Arts 1	3485 McTavish St., Montreal	Up. 9130
		32 Queen St., Sherbrooke, Que.	
Conroy, James Benedict	Arts 1	Apt. 15, 330 Claremont Ave., Westmount, Que.	West. 2400
Consiglio, William	Com. 3	90 Milton St., Montreal	Plat. 1904
Cooke, Emmanuel	Arts 3	3965 Clarke St., Montreal	Bel. 6385M
Cooke, Winnifred N.	Grad. Nurses	Montreal General Hospital, Montreal	Lan. 4101
		Arundel, Que.	
Cooper, Alfred H.	Arts 1	74 Chesterfield Ave., Westmount, Que.	West. 3149
		46 Oxford St. W., Moose Jaw, Sask.	
Cooper, Fannie	Arts 4	680 Outremont Ave., Outremont, Que.	At. 3702
Cooper, Lawrence O'Toole	Ap. Sci. 2	544 Sherbrooke St. W., Montreal	Up. 2264
		Box 48, Schumacher, Ont.	
Copeman, Colin Hamilton	Arch. 3	4089 Tupper Ave., Westmount, Que.	West. 3814
Coplan, Louis	Com. 2	302A Prince Arthur St. W., Montreal	Plat. 3573
		116 York St., Ottawa, Ont.	
Copland, Charles L.	Med. 2	4307 Montrose Ave., Westmount, Que.	West. 3535
Copland, Edward Bruce	Arts P	3506 University St., Montreal	Up. 0290
		4307 Montrose Ave., Westmount, Que.	West. 3535
Copland, Marion C.	Arts P.	4307 Montrose Ave., Westmount, Que.	West. 3535
Copnick, Irving	Arts 3	3669 Colonial Ave., Montreal	Plat. 1384
Copping, Bruce Gray	Ap. Sci. 4	3558 St. Famille St., Montreal	Plat. 7070
		316 Margaret Ave., Peterboro, Ont.	
Copping, Gordon Allan	Med. 3	504 Lansdowne Ave., Westmount, Que.	West. 5684
Corbet, A. A. Gordon	Med. 2	3563 Durocher St., Montreal	Plat. 5430
		64 Coburg St., St. John, N.B.	
Cornell, Evelyn R.	Com. 2	650 Grosvenor Ave., Westmount, Que.	West. 0051

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Cornforth, Marjorie B.	Arts 4	701 Hartland Ave., Montreal	At. 2732
Costello, Herbert	Arts 1	5443 Jeanne Mance St., Montreal	Cres. 3734
Cosser, Walter G.	Ap. Sci 2	3578 University St., Montreal Box 187, Shumacher, Ont.	Up. 9109
Costom, David	Med. 3	481 Melrose Ave., Montreal	Wal. 1417
Cote, Joseph Rene	Ap. Sci. 1	4685 Boyer St., Montreal	Bel. 8970
Cotler, Nathan	Law 1	3922 Henri Julien Ave., Montreal	
Couper, William Mason	Arts 3	779 Upper Roslyn Ave., Westmount, Que.	West. 5943
Courville, Albert L.	Med. 3	468 Sherbrooke St. W., Montreal 8 Marlborough St., Cornwall, Ont.	Lan. 0646
Covicy, Harry	Pharm.	2746 Hutchison St., Outremont, Que.	At. 4504J
Covshoff, Sonny	Arts 3	6558 Papineau Ave., Montreal	Cal. 4111W
Cox, Sarah	Arts 3	Royal Victoria College, Montreal Collingsville, Conn.	Plat. 0078
Coyle, Edith T.	Arts 1	14 Forfar St., Montreal	
Coyle, John Alfred	Med. 5	320 Prince Arthur St. W., Montreal. Wilder, Vt.	Plat. 0761
Crabtree, Mona V.	Arts 2	46 Curzon St., Montreal West, Que.	Wal. 3609
Craick, Marion B.	Arts 1	Royal Victoria College, Montreal 60 Lympstone Ave., Toronto, Ont.	Plat. 0078
Craig, Carleton	Arts 2	305 Prince Arthur St., Montreal 309 Somerset St., Ottawa, Ont.	Plat. 4220
Craig, Edna Marion	Lib. Sch.	1458 Bishop St., Montreal	Up. 4364
Craig, Isabel Fairchild	Grad. Sch	3454 University St., Montreal 309 Somerset St., Ottawa, Ont.	
Crain, Reginald A.	Ap. Sci. 1	3535 Shuter St., Montreal 285 Clemow Ave., Ottawa, Ont.	Plat. 5154
Cramp, William Stuart	Ap. Sci. 3	3535 Shuter St., Montreal 250, 1st Ave., Ottawa, Ont.	Plat. 5154
Craymer, Samuel Maitland	Arts 1	3473 University St., Montreal Beachburg, Ont.	Up. 1475
Crawford, James Merrill	Ap. Sci. 3	106 Lewis Ave., Westmount, Que. Howick, Que.	West.7762W
Creber, Mary V.	Arts 3	6200 Terrebonne Ave., Montreal	Wal. 6466
Crelinsten, Millie	Arts 1	2471 Hutchison St., Montreal	Cres. 2584
Criger, Samuel J.	Arts 4	27 St. Catherine Rd., Outremont, Que.	At. 5729
Crighton, Marjorie Elsie	Arts 2	3641 Oxenden Ave., Montreal	Plat. 4591
Cripps, Samuel	Arts 1	1027 Laurier Ave. W., Montreal	Cres. 8833
Crombie, Annie Margaret	Ap. Sci. 1	396 Magdalen St., Montreal	York 4108F
Cropper, James Porter E.	Ap. Sci. 1	6132 Persillier Ave., Montreal Kingston, St. Vincent, B.W.I.	
Crossland, Charles W.	Ap. Sci. 1	3485 McTavish St., Montreal Box 754, Barrie, Ont.	Up. 9130
Crozier, Leigh J.	Arts 2	3485 McTavish St., Montreal Dainley, P.E.I.	Up. 9130
Cruickshank, George A.	Grad. Sch	3629 Ste. Famille St., Montreal 92 Larch St., Providence, R.I.	
Cuddihy, Basil Robert	Med. 3	24 Elmwood Ave., Outremont, Que.	At. 1655
Cullen, Bernard L.	Med. 3	468 Sherbrooke St. W., Montreal 112 Fulton St., Auburn, N.Y.	Lan. 0646
Cumming, Jean Hamilton G.	Lib. Sch.	349 Beaconsfield Ave., Montreal	Wal. 0316
Cummings, Vincent Paul	Med. 2	223 Prince Arthur St. W., Montreal. 24 Frederick St., North Adams, Mass.	Plat. 5107
Cunliffe, Mary	Arts 1	282 De l'Epee Ave., Outremont, Que.	At. 0991
Cunningham, Harold E.	Ap. Sci. 1	455 Elm Ave., Westmount, Que.	West.7708W
Cunningham, J. Douglas L.	Com. 3	Ste. Anne de Bellevue, Que.	No. 163
Curren, Levi Addison	Med. 3	3524 University St., Montreal Millinocket, Maine	Up. 9173
Currie, Ronald G.	Ap. Sci. 1	1411 Mackay St., Montreal Sorel, Que.	
Curry, Douglas D.	Med. 5	72 Hutchison St., Montreal Trenton, Ont.	Plat. 6331
Curtis, Arthur E.	Ap. Sci. 4	294 Oxford Ave., Montreal Stanstead, Que.	Wal. 0128W
Curtis, Donald	Theology 1	3506 University St., Montreal Black Head, Nfld.	Up. 0290
Curtis, Helen M.	Soc. Workers 2.	488 Melrose Ave., Montreal	Wal. 2473
Cussans, Eileen Mary Y.	Phys. Ed. 1	548 Sherbrooke St. W., Montreal 12B Pullmer Apts., Wardlow Ave., Winnipeg, Man.	Up. 5942

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Dahlgren, Carl A.	Med. 2	3669 Lorne Crescent, Montreal	Plat. 5620
		20 Gladstone Ave., West Concord, N.H.	
Dainow, Joseph	Law 2	5149 Park Ave., Montreal	Bel. 4094J
*Dale, Anna	Arts P	552 Pine Ave., Montreal	Up. 3525
Daley, Louis William	Med. 3	468 Sherbrooke St. W., Montreal	Lan. 0646
		875 Lafayette Ave., Buffalo, N.Y.	
Dalton, Peter Dudley	Ap. Sci. 4	132 Belgrave Ave., Montreal	Wal. 2617J
Dancey, Travis Eugene	Arts 2	3506 University St., Montreal	Up. 0290
		Aylmer, Ont.	
Daniels, Francis Ryland	Com. 2	4190 Avenue Rd., Westmount, Que.	West. 3447
Darwin, Theodore Edward	Arts 4	194 Grey Ave., Montreal	Wal. 3160W
Davidson, E. Jeannette	Arts 3	626 Murray Ave., Westmount, Que.	West. 6836
Davidson, Gordon	Law 1	3637 University St., Montreal	Plat. 2681
Davidson, John A.	Arts 4	626 Murray Ave., Westmount, Que.	West. 6836
Davidson, John Ross	Med. 4	320 Prince Arthur St. W., Montreal	Plat. 0761
		1221 Thurlow St., Vancouver, B.C.	
Davidson, Walter Mackey	Arts 2	3454 Peel St., Montreal	Up. 6788
		273, 1st Ave., Ottawa, Ont.	
Davies, Thos. Richard	Grad. Sch.	3506 University St., Montreal	Up. 0290
		Ste. Therese, Que.	
Davis, Annie	Phys. Ed. 2	359 Victoria Ave., Westmount, Que.	West. 4870
Davis, Ebenezer James	Theology 1	3506 University St., Montreal	Up. 0290
		Freshwater, Nfld.	
Davis, Eric Steele	Ap. Sci. 2	3637 University St., Montreal	Plat. 2681
		Macleod, Alta.	
Davis, Henry Roy	Med. 5	1290 Bernard Ave., Apt. 7, Outremont, Que.	At. 3576
		Milner, B.C.	
Davis, Henry Weir	Arts 4	4041 Dorchester St., Montreal	West. 5716
Davis, Richard E. G	Arts P	989 Atwater Ave., Montreal	
Dawe, Herven H	Theology 1	3506 University St., Montreal	Up. 0290
		Cupids, Nfld.	
Dawe, Howard T	Ap. Sci. 4	3936 Verdun Ave., Verdun, Que.	York 2438M
Dawes, Chas. Haddon	Theology 1	3506 University St., Montreal	Up. 0290
		Beaurepaire, Que.	
Dawes, Ormiston J. N	Arts P	709 Pine Ave. W., Montreal	Up. 0392
Dawson, Ernest L	Arts 1	3473 University St., Montreal	Up. 2173
		Lacolle, Que.	
Dawson, Katherine H	Med. 2	21 Bellevue Ave., Westmount, Que.	West. 0746
Dawson, Peter M	Arts 1	193 Villeneuve St. W., Montreal	Bel. 3321
Dawson, Raymond J	Arts 2	682 Sherbrooke St. W., Montreal	
		16 Granite St., Methune, Mass.	
Day, Eleanor H	Phys. Ed. 2	5 Summerhill Terrace, Montreal	
		15 Wellington Row, St. John, N.B.	
Day, John Jessup	Med. 2	1442 Stanley St., Apt. 6, Montreal	Up. 7443
Daykin, Charles Edward	Med. 1	3586 Clarke St., Montreal	Plat. 1495
		481 Gladstone Ave., Ottawa, Ont.	
Dean, Carl C	Theology 1	3506 University St., Montreal	Up. 0290
		Stevenson Place, Ottawa, Ont.	
De Boyrie, Raphael	Med. 4	23 Lorne Ave., Montreal	Plat. 7406
		Central Ermita, Oriente, Cuba.	
De Groot, F. W	Theology	3473 University St., Montreal	Up. 1475
		20 Great Hermitage St., Wapping, Eng.	
d'Hauteserve, Louis	Grad Sch	Strathcona Hall, Montreal	
		St. Pourcain, Sioule (Allier), France.	
Delmotte, Isidore L.	Ap. Sci. 4	3449 St. Denis St., Montreal	East 2126W
		Stellarton, N.S.	
Demetre, Pauline	Arts 2	4387 Esplanade Ave., Montreal	Bel. 4616
de Montigny, Raimbault M.	Ap. Sci. 1	338 Sherbrooke St. W., Montreal	Lan. 7757
		238 Laurier Ave., Ottawa, Ont.	
Denenberg, Benjamin	Arts 2	4622 Park Ave., Montreal	
Denis, Frank T	Arts 1	3569 Durocher St., Montreal	Plat. 6815
		130 Maple Ave., Quebec, Que.	
Denman, William Wray	Com. 1	4667 St. Andre St., Montreal	Bel. 2237
DePotter, V.	Grad. Sch	1470 Bernard Ave., Montreal	
De Prume, Jehin F	Med. 2	3447 Shuter St., Montreal	Plat. 7094
		29 West 87th St., New York, N.Y.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Derrick, Eugene D	Med. 2	743 University St., Montreal Cambridge, N.Y.	Up. 2173
Desbarats, Hullett	Arts 3	315 Cote des Neiges Rd., Montreal	West. 3405
Des Brisay, Richard J	Ap. Sci. 2	1453 St. Matthew St., Montreal Petit Rocher, N.B.	
Deskin, Sydney S	Com. 2	832 Durocher Ave., Outremont, Que.	At. 3255M.
Detlor, W. Lyall	Arts 2	49 Chesterfield Ave., Westmount, Que.	West. 8055
Dewar, Kenneth M	Grad. Sch	715 Grosvenor Ave., Westmount, Que. Dewar Lake, Sask.	West. 2325
De Zwirek, Louis A	Arts 4	Apt. 3, 1145 Lajoie Ave., Outremont, Que. 118 St. George, Three Rivers, Que.	At. 6920F
Diamond, Bernard	Arts 3	21 Lasalle St., Lachine, Que	Lach. 1041
Dick, Robert Norman	Med. 1	3592 Durocher St., Montreal Britannia Beach, B.C.	Plat. 6796
Dickerson, Gertrude J	Arts 1	Chateaugay Basin, Que.	
Dickinson, Barbara J	Phys. Ed. 2	1156 Bishop St., Montreal 3 Thornton Ave., London, Ont.	Up. 6460
Dickey, Cecil Howard	Med. 3	348 Sherbrooke St. W., Montreal Perdue, Sask.	Lan. 1567
Dickie, Margaret I	Arts P	55 Westmount Blvd., Westmount, Que.	West. 2518
Dinovitzer, Oscar	Pharm	156 St. Joseph Blvd. W., Outremont, Que.	Bel. 7112
Diplock, James P	Arts 4	62 Forden Ave., Westmount, Que.	
Dixon, Gerald H	Arts 2	219 Wilson Ave., Montreal	Wal. 0619
Doak, G. Kenneth L	Arts 3	3506 University St., Montreal Cowansville, Que.	Up. 0290
Dobbin, D. Crawford	Arts 1	31 Grey Ave., Montreal	Wal. 5304
Dobbin, Phyllis Ethel	Arts 2	31 Grey Ave., Montreal	Wal. 5304
Doberer, Cameron	Ap. Sci. 3	1487 Mountain St., Montreal 1505, 25th Ave. W., Calgary, Alta.	Up. 9655
Doberer, Donald	Com. 2	1487 Mountain St., Montreal 1505, 25th Ave. W., Calgary, Alta.	Up. 9655
Doble, Marjorie S	Arts 3	102 Westmount Blvd., Westmount, Que.	West. 0463
Dobridge, Ronald W	Arts 4 and Ap. Sci. P.	348 Sherbrooke St. W., Montreal St. Kitts, B.W.I.	Lan. 1567
Dobrofsky, Louis M	Arts 3	Apt. E. 61, Chateau Apts., Montreal.	Up. 1045
Doherty, D'Arcy M	Com. 1	845 University St., Montreal 89 Forest Hill Rd., Toronto, Ont.	
Doherty, Frank	Theology 1	3506 University St., Montreal Outer Cove Rd., St. Johns, Nfld.	Up. 0290
Doherty, Thomas H	Ap. Sci. 3	3626 Desery St., Montreal	Clair.0698W
Doig, Howard Andrew	Arts 1	176 Marcil Ave., Montreal	
Donald, Henry Gordon	Arts 3	1523 Crescent St., Montreal	Up. 1759
Donald, John Alison	Ap. Sci. 1	1523 Crescent St., Montreal	Up. 1759
Donnelly, Grace Cecelia	Arts 4	Royal Victoria College, Montreal Kincaid, Sask.	Plat. 0078
Donnelly, James Henry L	Ap. Sci. 4	6871 Terrebonne Ave., Montreal	Wal. 5180
Donnelly, Kathleen F	Arts 3	4450 Western Ave., Westmount, Que.	West. 5779
Donoghue, Kathleen E	Arts 1	118 Grey Ave., Montreal	
Donovan, Arthur L	Med. 4	3524 University St., Montreal Rothesay Ave., St. John, N.B.	Up. 9173
Doolittle, Doris Helen	Arts 2	769 Cote St. Antoine Rd., Montreal	Wal. 0152
Doran, Harold James	Arch. 2	2339 Hutchison St., Montreal	Cres. 1674
Dorfman, Dorah	Arts 1	318 Marlowe Ave., Montreal	Wal. 0884W
Dorken, Robert Walter	Arts 1	621 Carleton Ave., Westmount, Que.	West. 4283
Doubilet, Henry	Med. 4	5 Deacon Road, Montreal New Glasgow, Que.	At. 1681
Doucet, Annette M	Soc. Workers	3492 Peel St., Montreal Thetford Mines, Que.	Up. 2132
Doull, A. Keith	Com. 3	3637 University St., Montreal Vernon, B.C.	Plat. 2681
Doull, Margaret D. C	Arts 1	Royal Victoria College, Montreal Box 566, Vernon, B.C.	Plat. 0078

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

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Doull, Robert Morse	Ap. Sci. 3	851 University St., Montreal	Plat. 5070
		34¼ Morris St., Halifax, N.S.	
Dow, Ruth Paterson	Arts. 3	4643 Sherbrooke St. W., Montreal	West. 0905
Dowling, Louis Alfred	Arts 2	495 Elm Ave., Westmount, Que.	West. 5179
Downing, John C	Theology 2	3506 University St., Montreal	Up. 0290
		Windsor, N.S.	
Down, Edward	Com. 1	259 Prince Arthur St. W., Montreal	Plat. 5058
		Seaforth, Ont.	
Doyle, Margaret E.	Arts 1	42, 32nd Ave., Lachine, Que.	Lach. 534
Doyle, Peter James	Med. 5	179 Dorchester St. W., Montreal	Lan. 8686
		188 Columbia Ave., New York, N.Y.	
Draper, Leslie M.	Arts 1	9 Highland Ave., Montreal	West. 0608
Drummond, George Arthur	Arts 1	302 Peel St., Montreal	
Dryden, Reginald N.	Theology 1	3506 University St., Montreal	Up. 0290
		81 Pandora Rd., Malvern, Johannesburg, S. Africa	
DuBoyce, Roslyn Maxwell H.	Arts 4	16 Weredale Park, Westmount, Que.	West. 1644
		Richmond, Que.	
Duckworth, John M. C.	Theology 2	3506 University St., Montreal	Up. 0290
		3337 Third Ave. W., Vancouver, B.C.	
Dugan, Doris Estelle	Arts 1	5908 Park Ave., Montreal	Cres. 6025
Dujat, Alvin G.	Med. 4	1441 Drummond St., Montreal	Up. 6500
		Bayside, Long Island, N.Y.	
Duke, Denis de S.	Com. 2	791 University St., Montreal	Plat. 1352
		454 Newport Ave., Victoria, B.C.	
Dukelow, Cecil A	Arts 1	3506 University St., Montreal	Up. 0290
		Winchester, Ont.	
Dumaresque, Frances M.	Arts 1	10658 Delorimier Ave., Montreal	Cal. 2888J
Dumbell, George H.	Com. 1	5926 Jeanne Mance St., Montreal	Cres. 6783
Duncan, Agnes M.	Soc. Workers 1	1442 St. Mark St., Montreal	Up. 1970
Dunlop, George H.	Arts 2	3506 University St., Montreal	Up. 0290
		Shedden, Ont.	
Dunlop, James Russell	Ap. Sci. 1	3550 Shuter St., Montreal	Plat. 6542
		72 Maple St., Ottawa, Ont.	
Dunlop, Robert John F.	Arts 1	1196 Bishop St., Montreal	Up. 4780
		Ste. Agnes de Dundee, Que.	
Dunn, L. W.	Med. 5	3468 Park Ave., Montreal	Plat. 3761
		Montague, P.E.I.	
Dunn, Percy Roy	Med. 5	37 Hutchison St., Montreal	Plat. 2517
		Box 55, Gaspereaux, P.E.I.	
Dunn, Thomas M.	Arts 1	775 Sherbrooke St. W., Montreal	
		The Log House on Beaucatcher, Asheville, N.C.	
Dunn, William Francis	Med. 5	3468 Park Ave., Montreal	Plat. 3761
		Montague, P.E.I.	
Dunn, William K.	Arts 3	1441 Drummond St., Montreal	Up. 6500
		1752 Euclid St. N.W., Washington, D.C.	
Dunne, Charles V.	Arts 1	3529 University St., Montreal	Plat. 7556
		56 College Ave., Ottawa, Ont.	
Dunning, Herbert A.	Arts 3	1090 Beaver Hall Hill, Montreal	Lan. 7947
		244 Plasa St., Ottawa, Ont.	
Dunphy, John M.	Med. 3	3601 University St., Montreal	Plat. 4314
		1039 Gillespie St., Schenectady, N.Y.	
Dunwell, Leslie	Theology	3473 University St., Montreal	Up. 1475
		19 Carberry Rd., Leeds, Eng.	
Dupont, Charles T.	Ap. Sci. 2	775 Sherbrooke St. W., Montreal	Up. 2143
		c/o Royal Trust Co., Victoria, B.C.	
*Dupont, Ubald	Dent. 1	15 Sherbrooke St. East, Montreal	Lan. 2596
		Plantagenet, Ont.	
Durley, Thomas R.	Ap. Sci. 4	78 Westmount Blvd., Westmount,	West. 7714
Duval, C. L. Neville	Med. 1	297 Durocher Ave., Outremont, Que.	Cres. 6482
Dworkin, Simon	Grad. Sch	5255 St. Urbain St., Montreal	
Dwyer, Charles Edward	Com. 4	1191 Mountain St., Montreal	Up. 0401
Dwyer, John Norman	Arts 1	Apt. 6, 287 St. Joseph Blvd. W., Montreal	At. 5751J
Dykes, James B.	Com. 1	37 Glencoe Ave., Outremont, Que.	At. 1762
Eakin, William Robert	Arts 1	572 Roslyn Ave., Westmount, Que.	West. 1498

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Eaman, Stanley G.	Med. 2	36 Charron St., Montreal	York 1904
Eardley, Kenneth John R.	Arts 1	3506 University St., Montreal	Up. 0290
		270 MacLaren, St., Ottawa, Ont.	
Eaves, Florence Enid	Arts 1	635 Murray Ave., Westmount, Que.	
Eaves, Gladys L.	Arts 1	198 Cote St. Antoine Rd., Montreal	West. 1167
Eaves, Kathleen	Arts 4	3608 Notre Dame St. E., Montreal	Clair 0119
Eaves, Wynifold Evelyn	Arts 1	635 Murray Ave., Westmount, Que.	
Eberts, Edmond H.	Arts 4	3575 Peel St., Montreal	Up. 1493
Eberts, Hermann L.	Ap. Sci. 3	3575 Peel St., Montreal	Up. 1493
Echlin, Francis A.	Med. 2	823 University St., Montreal	Plat. 0354
		347 Daly Ave., Ottawa, Ont.	
Edel, Abraham	Grad. Sch.	1623 Hutchison St., Apt. 1, Montreal	At. 4910
Edel, Leo	Grad. Sch.	1623 Hutchison St., Apt. 1, Montreal	At. 4910
Edey, Kenneth S.	Ap. Sci. 2	4615 Mance St., Montreal	Bel. 5859
Edson, Doris A.	Arts 2	362 Hingston Ave., Montreal	Wal. 0326
Edson, Edward Allan M.	Arts 1	362 Hingston Ave., Montreal	Wal. 0326
Edmison, John Alex.	Law 1	3581 University St., Montreal	Plat 6979
		78 Hogarth Ave., Toronto, Ont.	
Eibel, Philip	Arts 3	877 Durocher Ave., Outremont, Que.	At. 5125W
Eidam, Carl Louis	Arts 2	304 Peel St., Montreal	Up. 6788
		600 Prospect St., Methuen, Mass.	
Eidinger, Samuel L.	Arts 3	4319 Esplanade Ave., Montreal	Bel. 4022
Ein, Myer T.	Arts 3	366 Wood Ave., Montreal	West. 5903
Einbinder, Harry	Arts 3	75 Villeneuve St. W., Montreal	Bel. 9500
Eisenstat, Jack	Arts 1	1379 Notre Dame St. W., Montreal.	York 1850W
Elbert, Samuel G.	Med. 4	40 Lorne Ave., Montreal	Plat. 5056
		1000 French St., Wilmington, Del.	
Eliasoph, Milton	Arch 1	25 Bagg Avenue, Montreal	Bel. 6427
Elimeleck, Issie	Pharm	4084 Laval Ave., Montreal	Bel. 9047
Elkin, Daniel J.	Arts 2	45 Chesterfield Ave., Westmount, Que.	West. 6095
Elkin, Seymour	Arts 2	45 Chesterfield Ave., Westmount, Que.	West. 6095
Elliot, Howard L.	Med. 4	540 Cote St. Antoine, Montreal	West.2795W
Elliott, H. William	Arts 1	20 Lincoln Ave., Montreal	Up. 4666
		Box 106, Cache Bay, Ont.	
Elliott, Kathleen M.	Arts 2	1091 Decarie Blvd., Montreal	West. 4787
Ellis, David E.	Ap. Sci. 1	3434 McTavish St., Montreal	Up. 8633
		35 Lakeside Drive, Ottawa, Ont.	
Ellis, Florence Ernestine	Arts 3	58 Westmount Blvd., Westmount, Que.	West. 4781
Ellison, Albert	Law 3	3520 St. Famille St., Apt. 2, Montreal	Plat. 4094
Ellison, Maxwell	Law 3	3520 St. Famille St., Apt. 2, Montreal	Plat. 4094
Embree, John F.	Arts 1	775 Sherbrooke St. W., Montreal	Plat. 4220
		61 Broadway, New York, N.Y.	
Embregts, John Arthur	Ap. Sci. 2	774 Shuter St., Montreal	Plat. 5068
		89 Berthelet St., Quebec, Que.	
Epstein, Harry Hyman	Med. 3	2071 Peel St., Montreal	Lan. 9359
		236 Herzl St., Brooklyn, N.Y.	
Epstein, Louis	Arts 3	4227 St. Urbain St., Montreal	Bel. 6094F
Erdrich, Harold Jacob	Law 1	3492 St. Famille St., Montreal	Plat. 3796
Erlich, Max	Dent. 1	5033 Jeanne Mance St., Montreal	Bel. 6321J
Estall, Henry M.	Arts 3	348 Sherbrooke St. W., Montreal	Lan. 1567
		St. Bruno, Que.	
Estall, Rowland A.	Arts 1	586 Sherbrooke St. W., Montreal	
		St. Bruno, Que.	
Etziony, Mordecai	Arts 4	3773 De Bullion St., Montreal	
Evans, Alexander M.	Med. 1	3651 Oxenden Ave., Montreal	Plat. 5057
		3775 Pender St. E., Vancouver, B.C.	
Evans, Delano E.	Ap. Sci. 2	508 Sherbrooke St. W., Montreal	La. 0439
Evans, Edward Norton	Ap. Sci. 2	352 Kitchener Ave., Westmount, Que.	West. 5371
Evans, Gerald Taylor	Med. 2	3647 University St., Montreal	Plat. 5070
		2626 West 36th Ave., Vancouver, B.C.	
Evans, John Maurice	Ap. Sci. 3	625 De L'Epée Ave., Montreal	At. 7188
Evans, Marie E.	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		10 Ruskin Row, Winnipeg, Man.	
Ewing, Mary Alison	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		Richmond, Que.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Fagan, John Wm.	Med. 3	3576 Durocher St., Montreal	Plat. 1326
		165 Summer St., Fitchburg, Mass.	
Faille, John Lewis	D.P.H	1208 St. André St., Montreal	
Fairbairn, Margaret Eileen	Arts 1	7 Ingleside Ave., Westmount, Que.	
Farmer, Thomas D. F	Med. 2	748 Shuter St., Montreal	Plat. 4029
		8 Putnam St., Bristol, Conn.	
Farquharson, Hugh Miller	Arts 1	67B Prospect St., Westmount, Que.	West. 6840
Farrar, Cecil F	Com. 4	3581 University St., Montreal	Plat. 6979
		Georgetown, British Guiana.	
Fasulas, C. Arthur	Arts 3	348 Sherbrooke St. W., Montreal	Lan. 1567
		2118, 22nd Road, Astoria, R.I., N.Y.	
Faulkner, George V	Arts 2	3609 University St., Montreal	Plat. 3464
		101 Bridge St. E., Belleville, Ont.	
Fay, Edgar S	Arts 3	2064 Mansfield St., Montreal	Lan. 6825
		15 Willoughby Road, London, Eng.	
Featherston, Florence E	Grad. Sch	331 Addington Ave., Montreal	Wal. 4325
Feigelson, Hyman E. F	Arts 3	3979 Clarke St., Montreal	Bel. 7186J
		5235 Roosevelt Ave., Detroit, Mich.	
Feigenbaum, Louis W	Arts 2	4869 Park Ave., Montreal	Bel. 1515J
Feiner, Abraham	Arts 2	1473 Dorion St., Montreal	Cher. 6613
Feiner, Jacob H	Ap. Sci. 4	1473 Dorion St., Montreal	Cher. 6613
Feiner, Sam Solomon	Com. 3	1473 Dorion St., Montreal	Cher. 6613
Feller, Jacob	Arts 2	28 Prince Arthur St., Montreal	Plat. 1022
		256 Stewart St., Ottawa, Ont.	
Fensom, Jean Phyllis	Arts 3	18 Forden Ave., Westmount, Que.	West. 7476
Ferguson, James R	Ap. Sci. 1	1025 Sherbrooke St. W., Montreal	West. 9347
Ferguson, Marion E	Soc. Workers 2	4821 St. Catherine St., Westmount	West. 1663
Ferneyhough, Beatrice C	Arts 2	3617 Oxenden Ave., Montreal	Plat. 4989
Fiander, Richard Goodwin	Arts 4	3473 University St., Montreal	Up. 2173
		English Harbour West, Fortune Bay, Nfld	
Fidler, Nettie D	Grad. Nurses 1	Apt. 19, 1251 St. Mark St., Montreal	Up. 9420M
		20 Rathnally Ave., Toronto, Ont.	
Field, Frederick F	Arts 1	3520 University St., Montreal	Up. 5500
		519 Drummond Court, Apt. 5, Montreal.	
Fineberg, Eileen A	Soc. Workers 1	4129 Western Ave., Apt. 1, Westmount, Que.	West. 0726
Finlayson, Edith I	Arts 3	2342 Hutchison St., Outremont, Que.	Cres. 0568
Fish, Nathan	Arts 4	2248 Hutchison St., Apt.4, Montreal.	Cres. 1355
		61 St. Dominique St., Quebec, Que.	
Fisk, George M	Arch. 3	298 Pine Ave. W., Montreal	Plat. 1076
Fisk, Guy Hubert	Arts 3	86 Maple Ave., St. Lambert, Que.	St.Lam 164M
Fitch, Benjamin	Law 1	3493 St. Lawrence Blvd., Montreal.	Lan. 7752
Fitzgerald, Frederick W	Med. 1	3457 Shuter St., Montreal	Plat. 0370
		Grand Falls, Nfld.	
Fitzgerald, John Joseph	Med. 1	3541 Jeanne Mance St., Montreal	Plat. 3822
		112 Columbia Blvd., Waterbury, Conn.	
Fitzgerald, William Weir	Med. 2	468 Sherbrooke St. W., Montreal	Lan. 0646
		74 Beechwood Terrace, Yonkers, N.Y.	
Fitzhugh, William McP	Arts 2	1215 Bishop St., Montreal	Up. 3007
		2350 Broadway, San Francisco, Cal.	
FitzRandolph, Edward B	Com. 1	Central Y.M.C.A., Montreal	
		790 Brunswick St., Fredericton, N.B.	
Fitzsimmons, William	Theology	3485 McTavish St., Montreal	Up. 9130
		Richhill, Armagh, Ireland.	
Flack, Kathleen Isabella M	Arts 3	241 Sherbrooke St. W., Montreal	Plat. 0427
Flanz, Joseph	Arts 3	163 St. Joseph Blvd. W., Montreal.	Bel. 9667
Flanz, Molly	Arts 2	163 St. Joseph Blvd W., Montreal.	Bel. 9667
Fleming, Allan James	Med. 1	Apt. 55, The Mansions, Guy St., Montreal	Up. 5073
		146 Montrose St., Winnipeg, Man.	
Flint, Orin Q	Med. 4	320 Prince Arthur St. W., Montreal.	Plat. 0761
		Athens, N.Y.	
*Floomberg, Harry Cecil	Ap. Sci. 1	3847 Colonial Ave., Montreal	
*Floomberg, Sonia N	Arts 1	3847 Colonial Ave., Montreal	
Flynn, John F	Med. 2	320 Prince Arthur St. W., Montreal.	Plat. 0761
		31 Stratford, Ave., Pittsfield, Mass.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Fogg, Lydia Ann	Arts 4	Rigi Apts., Prince Arthur St., Montreal Greensburg, Penn.	Plat. 0922
Fong, William H	Ap. Sci. 4	1106 St. Urbain St., Montreal Canton, China.	Lan. 3713
Foote, John Weir	Arts 1	3485 McTavish St., Montreal Madoc, Ont.	Up. 9130
Foran, Philip F	Law 1	2064 Mansfield St., Montreal 147 Wilbrod St., Ottawa, Ont.	Lan. 6825
Forbes, Norman Ellis	Com. 2	304 Prince Arthur St. W., Montreal. Hespeler, Ont.	Plat. 3624
Ford, William Maxwell	Arts 2	203 Lesperance St., St. Lambert, Que.	St. Lam. 409J
Forsyth, Birdie J.	Arts 3	13 Beverley Rd., Mount Royal, Que.	At. 6801
Forsyth, George Lyle	Arts 2	348 Sherbrooke St. W., Montreal Simcoe, Ont.	Lan. 1567
Forsythe, Albert E	Med. 4	3521 Shuter St., Montreal Port Antonio, Jamaica, B.W.I.	Plat. 4059
Forth, John W.	Arts 1	3473 University St., Montreal 1040 Mackay St., Montreal.	Up. 2173
Fosbery, Eileen Frances	Arts 2	84 Grand Blvd., Montreal	Wal. 4939J
Fournier, Claude Joseph	Arts 4 and Med. 1	3549 Mance St., Montreal Sudbury, Ont.	Plat. 3600
Fowler, Donald Eugene	Grad. Sch	Macdonald College, Que. Bloomfield Station, King's Co., N.B.	
Fowler, Hanford McKee	Arts 1	1528 Crescent St., Montreal 279 Regent St., Fredericton, N.B.	Up. 8083
Fox, Dorothy K.	Soc. Workers	3530 Park Ave., Montreal 117 Howland St., Roxbury, Mass.	
Fox, Myron Joseph	Med. 5	3530 Park Ave., Montreal 34 Garden St., Boston, Mass.	
Fox, Theodore (Tovia)	Med. 5	4580 St. Urbain St., Montreal	Bel. 7968W
Fraid, Dorothy	Arts 1	438 Strathcona Ave., Westmount, Que.	West. 5189
Francis, John Barten	Ap. Sci. 2	60 Arlington Ave., Westmount, Que.	West. 0971
Francis, Jonathan Bryson	Ap. Sci. 2	165 Hutchison St., Montreal Indian Head, Sask.	Plat. 1618
Francis, Selby W.	Grad. Sch	3506 University St., Montreal Broad Cove, B. de V., Nfld.	Up. 0290
Frank, Harold	Arts 3	144 Belanger Ave., Montreal	Cres. 5685
Fraser, Archibald D	Arts 1	1528 Mackay St., Montreal Fredericton, N.B.	Up. 4521
Fraser, Campbell	Ap. Sci. 1	348 Sherbrooke St. W., Montreal Richmond, Que.	Lan. 1567
Fraser, Simon B.	Med. 5	468 Sherbrooke St. W., Montreal Williamstown, Ont.	Lan. 0646
Fraser, William G.	Med. 1	67 McTavish St., Montreal 812 Summer St., Lynn, Mass.	Up. 9130
Freedman, Hyman	Com. 3	3928 Henri Julien Ave., Montreal	
Freedman, Hyman J.	Dent. 1	1120 Chenneville St., Montreal	Lan. 1077
Freedman, Hyman M.	Arts 2	4625 Esplanade Ave., Montreal	Bel. 3347W
Freedman, Joseph H.	Arts 2	5452 St. Urbain St., Montreal	Cres. 9555
Freedman, Louis	Arts 4	4625 Esplanade Ave., Montreal	Bel. 3347W
Freiman, Lawrence H.	Arts 2	384 Sherbrooke St. W., Montreal 149 Somerset St., Ottawa, Ont.	Lan. 8505
Friedman, Moe H.	Arts 3	5178 Esplanade Ave., Montreal	Cres. 3634
Frizzle, Arnold L.	Arts 3	350 Sherbrooke St. E., Montreal Brome, Que.	
Froats, Earl Basken	Arts 1	3506 University St., Montreal 130 Hinton Ave., Ottawa, Ont.	Up. 0290
Frohlich, Louis Isidore	Med. 4	4865 Clarke St., Montreal	Bel. 3998W
Frost, Anson Coburn G.	Med. 1	292 Sherbrooke St. W., Montreal 1619 King Edward Ave., Vancouver, B.C.	Plat. 0717
Frost, Clifford E.	Ap. Sci. 2	417 St. Joseph St., Lachine, Que.	Lac 1401J
Fry, William Scarth	Arts 4	16 Thornhill Ave., Westmount, Que.	West. 6172
Fulford, G. Floyd	Arts 1	3485 McTavish St., Montreal Arnprior, Ont.	Up. 9130
Fuller, Barbette T.	Arts 3	798 Baldwin Ave., Tetreaultville, Que.	Clar. 6331W

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Fuller, Harold Trowbridge	Arts 2	241 Sherbrooke St. W., Montreal 16 May St., Needham, Mass.	Plat. 0427
Fulton, Fraser Fowler	Ap. Sci. 4	3506 University St., Montreal 117 Lansdowne St., Fredericton, N.B.	Up. 0290
Fyshe, Thomas G	Arts 1	1471 Bishop St., Montreal	Up. 3689
Gagnon, Elmore G	Ap. Sci. 4	6007 Esplanade Ave., Montreal	Cres. 8770
Gaillard, Milton T	Med. 1	3580 Durocher St., Montreal 147 Rogers Ave., Brooklyn, N.Y.	Plat. 3265
Galbraith, Francis O	Med. 4	Strathcona Hall, Montreal 914, 3rd Ave. S., Lethbridge, Alta.	Lan. 1567
Galipeau, Georges I	Arts 1	43 Sherbrooke St. E., Montreal	Lan. 2054
Gallant, Joseph Arthur	Med. 5	3555 University St., Montreall 2918 Chamberlayne Ave., Richmond, Va.	Plat. 0753
Galvin, Edward F	Com. 4	2082 University St., Montreal 2346 Fifteenth St., Troy, N.Y.	Lan. 7548
Gamble, Chas	Arts 2	5131 Park Ave., Montreal	Cres. 8009
Gamble, John M. C	Com. 3	9 Summerhill Ave., Montreal 267 Somerset St., Ottawa, Ont.	Up. 0386
Gammell, Robert Gordon MacL	Law 1	3712 Park Ave., Montreal	Plat. 2835
Gardiner, Ruth A	Arts 4	20 Markham Rd., Town of Mount Royal, Que.	At. 2898J
Gardner, Campbell McG	Med. 2	1520 St. Matthew St., Montreal	Up. 3105
Gardner, Gerald D	Com. 1	724 Sherbrooke St. W., Montreal 36 Dauphine St., Quebec, Que.	Up. 4250
Garland, Sidney George	Arts 4	3506 University St., Montreal Lower Island Cove, Nfld.	Up. 0290
Garmaise, Florence	Arts 2	5471 St. Urbain St., Montreal	Bel. 1848W
Gavin, Thomas McN	Ap. Sci. 3	1672 Aird Ave., Montreal	
Garmaise, Max	Arts 4	4691 Mance St., Montreal	Bel. 6043J
Gately, Jerome J	Med. 4	95 Hutchison St., Montreal	Plat. 5235
Gelfand, Meyer	Arts 3	4588 Esplanade Ave., Montreal	Bel. 8598
Gemmell, Kenneth R	Arts 1	64 Victoria St., Montreal Martinville, Que.	
Gerson, Harold S	Arts 4	3469 De Bouillon Ave., Montreal	Lan. 6651
Gesser, Issie	Pharm 1	5981 Waverley St., Montreal	Cres. 4711
Gersovitz, Ben	Arts 3	4119 St. Urbain St., Montreal	Bel. 8830
Gersovitz, Frank	Ap. Sci. 1	4101 St. Urbain St., Montreal	Bel. 0475
Gibbons, Morton R	Med. 3	317 Pine Ave. W., Montreal 3979 Washington St., San Francisco, California	Up. 8731
Giberson, Lydia G	Med. 5	3723 Jeanne Mance St., Montreal Bath, N.B.	Plat. 0979
Giblin, Norris	Grad. Sch	105 St. Luke St., Montreal	
Giddings, Reginald K	Com. 3	466 Sherbrooke St. W., Montreal Granby, Que.	Lan. 5778
Gilbert, David	Arts 3	5301 St. Urbain St., Montreal	Cres. 0993
Gill, Francis Egan T	Com. 2	823 University St., Montreal 281 O'Connor St., Ottawa, Ont.	Plat. 0354
Gill, MacLean John	Med. 1	82 Pine Ave. W., Montreal Salaberry, Que.	Plat. 0895
Gillard, George Leander	Arts P	3506 University St., Montreal Englee, Newfoundland	Up. 0290
Gillean, Robert H	Arts 4	604 Clarke Ave., Westmount, Que.	West. 2722
Gillespie, Alexander R	Com. 2	610 Pine Ave. W., Montreal	Up. 4125
Gillies, Donald J	Theology	3485 McTavish St., Montreal St. Kilda, Scotland.	Up. 9130
Gillies, Malcolm	Theology	3485 McTavish St., Montreal Shawbost, Lewis, Scotland	Up. 9130
Gillies, Margaret Isabel D	Arts 3	Royal Victoria College, Montreal 1755 Broughton St., Vancouver, B.C.	
Gillson, Constance G. E	Arts 2	1237 Guy Street, Montreal	Up. 5813
Gillson, Olive	Arts P	386 Sherbrooke St. W., Montreal	Lan. 9816
Gilman, Albert Eric G	Arts 2	7A Park Ave., St. Rose, Laval, Que.	
Gilman, Helen B	Com. 4	Royal Victoria College, Montreal 105 Fair Oaks Park, Needham, Boston, Mass.	Plat. 0078
Gilmore, Alice E	Arts. 1	89 Gladstone Ave., Westmount, Que.	York 4847W

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Gilmore, John R.	Arts 1.	3541 Jeanne Mance St., Montreal Rock Island, Que.	Plat. 3822
Gilroy, Geoffrey L.	Arts 1.	348 Sherbrooke St. W., Montreal Smith's Falls, Ont.	Lan. 1567
Gilroy, Hilda E.	Arts 3.	Royal Victoria College, Montreal Smith's Falls, Ont.	Plat. 0078
Ginsberg, Hilliard	Arts 4.	5432 St. Urbain St., Montreal	Cres. 6772
Giovando, Lorenzo	Med. 3.	468 Sherbrooke St. W., Montreal Ladysmith, B.C.	Lan. 0646
Girard, Joseph A. V.	Com. 1.	484 Sherbrooke St. E., Montreal	East 0166
Girvan, Madeleine L.	Arts 3.	Royal Victoria College, Montreal 114 Mecklenburg St., St. John, N.B.	Plat. 0078
Giulianelli, Leonard S.	Arts 4.	5568, 1st Ave., Rosemount, Que.	Cher. 3017
Glasgow, Paul John W.	Law 1.	1180 Drummond St., Montreal	Up. 3469
Glassco, Edward D.	Com. P.	127 Cedar Ave., Montreal	Up. 2277
Glassco, Ivan R.	Arch. 5.	3605 University St., Montreal 195 Carlton Ave. W., Hamilton, Ont.	Plat. 0354
Glassco, John Stinson	Arts 3.	127 Cedar Ave., Montreal	Up. 2277
Glassco, Meredith G.	Com. 1.	305 Prince Arthur St. W., Montreal 2 Evergreen Place, Winnipeg, Man.	
Glassco, William G.	Med. 4.	823 University St., Montreal 242 James St. S., Hamilton, Ont.	Plat. 0354
Glasser, Samuel T.	Med. 5.	2026 McGill College Ave., Montreal 65 Central Park W., New York City	Lan. 8610
Glassford, Arthur K.	Arts 4.	318 Cote St. Antoine Rd., Montreal.	West. 2833
Goddard, Harold Oliver	Ap. Sci. 4.	757 Bloomfield Ave., Outremont, Que.	At. 0034
Godet, Thomas Martin du B.	Ap. Sci. 2.	1441 Drummond St., Montreal Paget, Bermuda, B.W.I.	Up. 6500
Godfrey, John E.	Ap. Sci. 2.	825 Wilder Ave., Outremont, Que.	At. 0641
Godine, L. Iris	Arts 1.	11 Souvenir Ave., Montreal	Up. 0006
Godinsky, Pearl	Arts 1.	5294 St. Lawrence Blvd., Montreal	Bel. 0349
Godinsky, Samuel	Law 1.	5294 St. Lawrence Blvd., Montreal	Cres. 5853
Godwin, Harold B.	Ap. Sci. 4.	Ste. Anne de Bellevue, Que.	Ste. Anne 109
Goforth, John Frederick	Grad. Sch.	3485 McTavish St., Montreal Manchuria, China	Up. 9130
Gold, Naamon	Arts 2.	3519 St. Urbain St., Montreal	Plat. 5347
Gold, Samuel	Arts 3.	4596 Clarke St., Montreal	Bel. 7507J
Goldberg, Joseph	Med. 4.	3498 de Bullion St., Montreal	Lan. 5786
Goldberg, Marie M.	Com. 2.	16 Cuthbert St., Montreal	Plat. 3309
Goldenberg, Annie H.	Arts 2.	417 Mount Stephen Ave., Westmount, Que.	West. 2426
Goldenberg, H. Carl	Arts 4.	417 Mount Stephen Ave., Westmount, Que.	West. 2426
Goldenberg, Morris	Law 3.	5826 Park Ave., Montreal	Cres. 4084
Goldman, Etta	Soc. Workers 2.	3436 Laval Ave., Montreal	Lan. 0584
Goldner, Stanley	Arts 3.	325 Melrose Ave., Montreal	Wal. 1199
Goldstein, Charles D.	Arts 4.	1131 Plessis St., Montreal	Cher. 2364
Goldstein, Ernest	Med. 2.	4650 Esplanade Ave., Montreal	Bel. 8272W
Golfman, Myer	Arts 1.	Apt. 3, 5858 Sherbrooke St. W., Montreal	Wal. 4548
Gonzalez, George Albert	Ap. Sci. 2.	35 Grosvenor Ave., Westmount, Que.	West. 6158
Gonzalez, Louis C.	Ap. Sci. 2.	435 Grosvenor Ave., Westmount, Que.	West. 6158
Good, Margaret W.	Arts 2.	4470 St. Catherine St. W., Westmount, Que.	West. 8575
Goodeve, Edward A.	Com. 1.	3581 University St., Montreal Winnipeg, Man.	Plat. 6979
Goodman, Hyman B.	Ap. Sci. 2.	4882 Esplanade Ave., Montreal	Bel. 1750J
Goodman, Samuel J.	Arts 1.	4439 Clarke St., Montreal	Bel. 6269W
Gordon, Jessie C.	Grad. Nurses 1.	Y.W.C.A., 502 Dorchester St., Montreal. Electric, Ont.	Up. 5230
Gordon, N. D.	Med. 3.	317 Pine Ave. W., Montreal 4 Crescent Court, Winnipeg, Man.	Up. 8731
Gordon, Samuel	Arts 4.	5295 Esplanade Ave., Montreal	Cres. 7956
Goth, George W.	Arts 2.	3506 University St., Montreal Billings Bridge, Ont.	Up. 0290
Gotlieb, Jack	Arts 3.	37 St. Cuthbert St., Montreal	Plat. 1406

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Gottlieb, Rudolf	Med. 5	6300 St. Denis St., Montreal Vienna, Austria.	Cres. 5254F
Gough, Roger W	Arts 3	3506 University St., Montreal Elliston, Nfld.	Up. 0290
Gourlay, Will. L	Arts 4	3506 University St., Montreal Carp, Ont.	Up. 0290
Gradinger, Anna	Soc. Workers 2	291 Prud'homme Ave., Montreal	Wal. 5558W
Gradinger, Arnold S	Med. 5	291 Prud'homme Ave., Montreal	Wal. 5558W
Gradinger, Bernard L	Arts 3	291 Prud'homme Ave., Montreal	Wal. 5558W
Graham, Edward A	Law 1	2064 Mansfield St., Montreal Mangua, Nicaragua, C.A.	Lan. 6825
Graham, Gavin T. P	Arts 4	3622 Lorne Crescent, Montreal Arundel, Que.	At. 3635
Granger, Sanford Robert	Com. 1	267 Peel St., Montreal 532 Dufferin Ave., London, Ont.	Lan. 9359
Grant, Alexander E	Com. 1	3550 Shuter St., Montreal 41 Grosvenor Ave., Ottawa, Ont.	
Grant, Alexander J	Ap. Sci. 3	3516 Shuter St., Montreal 183 Ontario St., St. Catharines, Ont.	Plat. 3310
Gravel, Edith A	Arts P	451 Clarke Ave., Westmount, Que.	West. 4189
Graveline, Theodore J	Arts 2	1461 Metcalfe St., Montreal Newport, Vt.	
Gray, James D	Med. 1	8023 Western Ave., Montreal	Wal. 6712
Gray, Leona	Grad. Sch	1433 Chomedy St., Montreal	Up. 3668
Gray, Mary Macqueen	Arts 1	Royal Victoria College, Montreal 72 Leinster St., St. John, N.B.	Plat. 0078
Gray, Nelson Milton	Arts 4	1433 Chomedy St., Montreal	Up. 3668
Greaves Harold Layland	Dent. 3	508 Victoria Ave., Westmount, Que.	West. 4164
Greaves, Ida C	Arts 3	Royal Victoria College Annex, Montreal Barbados, B.W.I.	Up. 2534
Greenberg, Charles	Com. 4	5646 Clarke St., Montreal	Cres 0651
Greenberg, Milton	Med. 5	3555 University St., Montreal 402 East 136th St., New York, N.Y.	Plat. 0753
Greenberg, Sam	Arts 1	3436 St. Dominique St., Montreal	
Greenblatt, Benjamin	Arts 4 and Med 1	4267 Esplanade Ave., Montreal	Bel. 0677
Greene, Harry S. N	Med. 3	320 Prince Arthur St. W., Montreal. Slaterville, R.I.	Plat. 0761
Greene, Robert Alva	Grad. Sch	Pea Ridge, Ark.	
Greenspoon, Eli	Arts 2	5756 Clarke St., Montreal	Cres. 0211
Greer, Ida Isabel	Soc. Workers	4296 Dorchester St., Westmount, Que.	West. 3688
Gregory, Robert Alex	Med. 2	3524 University St., Montreal 102 Portland St., St. John, N.B.	Up. 9173
Greig, Margaret E	Arts 4	3200 St. James St. W., Montreal Valleyfield, Que.	Wal. 3373
Grenier, Maurice	Ap. Sci. 2	3479 Shuter St., Montreal 48 Sweettard Ave., Ottawa, Ont.	Plat. 5410
Griffiths, Eugene B	Med. 2	320 Prince Arthur St. W., Montreal. Presque Isle, Me	Plat. 0761
Griffiths, Wilberforce	Arts 3	1982 St. James St., Montreal 213 W. 115th St., New York, N.Y.	West. 7637J
Griffiths, Wm. E	Ap. Sci. 2	348 Sherbrooke St. W., Montreal 116 Indian Road, Toronto, Ont.	Lan. 1567
Grimes-Graeme, Rhoderick Cecil H	Arts 3	293 Sherbrooke St. W., Montreal 3 Harrow View, Harrow, Middlesex, Eng.	Plat. 1640
Grimm, Jay John	Med. 3	3605 St. Famille St., Montreal 325 West Church St., Gainesville, Fla.	Plat. 6467
Groleau, Arnold J	Ap. Sci. 4	84 Chesterfield Ave., Westmount, Que.	West. 3126
Groper, Morris Judson	Med. 3	579 Union Ave., Montreal 1544 East 24th St., Brooklyn, N.Y.	Plat. 2332
Gross, Frederick W	Com. 4	539 Grosvenor Ave., Westmount, Que.	West. 5657
Gross, Helen E	Arts 1	377 Beaconsfield Ave., Montreal	Wal. 3293
Gross, Isidore E	Pharm	115 Laurier Ave. W., Montreal	Cres. 3227
Gross, Mrs. Sara Sperber	Law 3	4131 Western Ave., Montreal	West. 8629
Grossman, Allan Albert	Arts 3	198 St. Joseph Blvd. W., Montreal	Bel. 1925M

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Grundy, Harry Edward	Law 1	Presbyterian College, McTavish St., Montreal.	Up. 9130
		57 Portland Ave., Sherbrooke, Que.	
Guest, Raymond Richard	Arts 1	Roslyn, Long Island, N.Y.	
Guiton, G	Theology	3473 University St., Montreal	Up. 1475
Gunn, William D	Arts 2	1198 Seymour Ave., Montreal	Up. 1273
		115, 2nd St., New Westminster, B.C.	
Gurvitch, Samuel	Med. 2	197 St. Viateur St. W., Montreal	Cres. 4978
Gustafson, Carl John	Arts 1	3506 University St., Montreal	Up. 0290
		Waterville, Que.	
Gutelius, Isabel E	Arts 4	341 Kensington Ave., Westmount, Que.	West. 7576
Gutelius, Phoebe Ann	Arts 1	341 Kensington Ave., Westmount, Que.	West. 7576
Guthrie, J. Harold Roberts	Com. 1	15 Vendome Ave., Montreal	Wal. 5347
Guze, Max	Com. 2	3995 Colonial Ave., Montreal	Plat. 6374
Gwynne, Jean M	Soc. Workers 1	111 Birch Ave., St. Lambert, Que.	St.Lam.185
Haas, Harry	Arts 1	1045 Notre Dame St. W., Montreal.	York 6179
Haber, Harold E	Arts 1	1526 Hutchison St., Montreal	At. 7512J
Hadwin, Marjorie E	Arts 1	112 Birch Ave., St. Lambert, Que.	St.Lam. 47
Haemmerlé, Anatole Alfred	Arts 1	82 Victoria St., Montreal	Lan. 2336
Haines, Julius Holmes	Ap. Sci. 2	1001 Dorchester St. W., Montreal	Up. 5991
Hall, Alan B	Med. 5	320 Prince Arthur St. W., Montreal.	Plat. 0761
		115 Machleary St., Nanaimo, B.C.	
Hall, Eric	Theology	3473 University St., Montreal	Up. 1475
		Abercorn, Que.	
Hall, G. Birks A	Com. 2	2133 Hutchison St., Montreal	Cres. 6366
Hall, George	Theology	3473 University St., Montreal	Up. 1475
		38 Thompson Lane, Hollinwood, Oldham, Lancs., Eng.	
Hall, Martin I	Med. 2	320 Prince Arthur St. W., Montreal.	Plat. 0761
		Edmundston, N.B.	
Halpenny, Gerald W	Arts 2	262 Prince Arthur St. W., Montreal.	Plat. 3691
Halperin, Harry J	Com. 1	4063 Clarke St., Montreal	Bel. 0457F
Ham, Helen E	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		North Hatley, Que.	
Hambly, Annie Louise	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		Buckingham, Que.	
Hamilton, Frederic Wright	Com. 3	97 The Boulevard, Westmount, Que.	West. 5934
Hamilton, Iris Maria	Arts 1	Apt. 42, 1064 Bernard Ave., Montreal.	At. 1958
Hamilton, James Stewart	Arts 1	1225 Mountain St., Montreal	Up. 0981
Hamilton, Robert William	Ap. Sci. 3	113 Brock Ave. S., Montreal West, Que.	Wal. 0671
Hancock, John Allan	Com. 1	1433 Mansfield St., Montreal	Lan. 3638
		Leamington, Ont.	
Hand, Alice E. R	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		375 Aberdeen Ave., Hamilton, Ont.	
Hand, Charles W	Arts 1	544 Sherbrooke St. W., Montreal	Up. 2264
		130 College Ave., Ottawa, Ont.	
Hand, William Ross	Arts P	2033 Stanley St., Montreal	
		375 Aberdeen Ave., Hamilton, Ont.	
Handfield, Joseph B	Law 2	156 St. Catherine Road, Outremont, Que.	At. 0638
Hands, Cedric H	Law 2	3637 University St., Montreal	Plat. 2681
Hanlon, Francis W	Med. 2	26 McTavish St., Montreal	Up. 8633
		Ridlonville, Me.	
Hanna, George Spencer	Arts 1	4313 Montrose Ave., Westmount, Que.	West. 3165
Hanny, Edwin S	Arts 3	845 University St., Montreal	Plat. 2681
		Unionville, Conn.	
Hansard, Hugh Gerard H	Law 3	731 Sherbrooke St. W., Montreal	Up. 1326
Harano, Susumu	Arts P	3506 University St., Montreal	Up. 0290
		Methodist Church, Nippori, Tokyo, Japan.	
Hare, Charles M	Ap. Sci. 3	3661 Jeanne Mance St., Montreal	Plat. 5437
		295 Lancaster St. W., St. John, N.B.	
Hargrave, James H. D	Ap. Sci. 4	308 Prince Arthur St. W., Montreal.	Plat. 7472
		156, 3rd St. N., Medicine Hat, Alta.	
Harkness, Harold W	Grad. Sch	110 Columbia Ave., Westmount, Que.	
		Cornwall, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Harkins, Michael J.	Med. 1	3538 Shuter St., Montreal	Plat. 1968
		28 Union St., Lewiston, Me.	
Harquail, Francis James	Com. 4	544 Sherbrooke St. W., Montreal	Up. 2264
		Campbellton, N.B.	
Harquail, J. Maurice	Ap. Sci. 1	544 Sherbrooke St. W., Montreal	Up. 2264
		Campbellton, N.B.	
Harris, Archie M.	Med. 2	320 Prince Arthur St. W., Montreal.	Plat. 0761
		27 Doremus Ave., Ridgewood, N.J.	
Harris, Arthur A.	Arts 3	2143 Champlain St., Montreal	Amh. 0378
Harris, Florence R.	Phys. Ed. 1	3466 University St., Montreal	Up. 3369
		Annapolis Royal, N.S.	
Harris, George I.	Arts 3	4286 Clarke St., Montreal	Bel. 8396W
Harris, Harry	Arts 2	299 Prince Arthur St., Montreal	Plat. 0355
		129 N. John St., Fort William, Ont.	
Harris, Julius J.	Arts 3.	299 Prince Arthur St. W., Montreal.	Plat. 0355
		129 N. John St., Fort William, Ont.	
Harris, Theodore H.	Law 2 and Grad. Sch.	530 Outremont Ave., Outremont, Que.	At. 1018
Harrison, Edward K.	Med. 1	3520 University St., Montreal	Up. 5500
		11 Hazard Place, Elizabeth, N.J.	
Harrison, Ruth Ellen	Arts 3	609 Roslyn Ave., Westmount, Que.	West. 2707
Harrison, H. C.	Theology	3473 University St., Montreal	Up. 1475
		349 So. Brock St., Sarnia, Ont.	
Hart, Grace	Lib. Sch.	757 Lansdowne Ave., Westmount, Que.	West. 1291
Hart, Lawrence	Law 1	600 Argyle Ave., Westmount, Que.	West. 1979
Hartney, James R.	Ap. Sci. 2	308 Prince Arthur St., Montreal	Plat. 7472
		2153 McIntyre St., Regina, Sask.	
Harvey, Ruth	Arts P	65 Chesterfield Ave., Westmount, Que.	West. 7062
Harvey-Jellie, Doreen J.	Arts 1	483 Elm Ave., Westmount	West. 6586
Harvey Jellie, Reginald C.	Arts 4	483 Elm Ave., Westmount	West. 6586
Haslam, Lewis Charles	Arts 1	1034 Grosvenor Ave., Montreal	West. 7144
Hasley, Isobel Jean	Grad. Sch.	309 Maplewood Ave., Outremont, Que.	At. 4137W
Hatfield, Albert Richard	Med. 2	3605 University St., Montreal	Plat. 0354
		2709 Genesee St., Utica, N.Y.	
Haughton, James	Arts 1	Apt. 4, 1196 Bishop St., Montreal	Up. 4780
		Dundee, Que.	
Hawley, Eric F.	Ap. Sci. 1	10415 St. Hubert St., Montreal	Cal. 4555F
		Ormstown, Que.	
Hay, John Stuart	Ap. Sci. 4	3730 Jeanne Mance St., Montreal	Plat. 4589
		Lachute, Que.	
Hayden, Robert S.	Med. 2	320 Prince Arthur St. W., Montreal.	Plat. 0761
		116 Circular St., Saratoga Springs, N.Y.	
Hayes, Alis O'Connell	Lib. Sch.	1229 St. Mark St., Montreal	Up. 4011
Hayshaw, Cecil Lettice	Soc. Workers 1.	276 Pine Ave. W., Montreal	Up. 3235
Heald, Margaret	Soc. Workers 1.	Apt. 12, 250 Sherbrooke St. W., Montreal	Plat. 4789
Heartz, Frances Ruth	Arts 4	Royal Victoria College, Montreal	Plat. 0078
		Charlottetown, P.E.I.	
*Heaton, Phyllis	Arts 1	60 Westmount Blvd., Westmount, Que.	West. 2450
Heenan, Peter Fawcett	Com. 1	304 Prince Arthur St. W., Montreal.	
		Regal Bldg., Ottawa, Ont.	
Heeney, Arnold D. P.	Law 2	3637 University St., Montreal	Plat. 2681
		511 Stravbrooke Ave., Winnipeg, Man.	
Heitin, Benjamin	Com. 1	4278 City Hall Ave., Montreal	Bel. 6627W
Held, Albert Edward	Med. 3	460 Wiseman Ave., Outremont, Que.	At. 3933
Held, Harry Ronald	Arts 4	460 Wiseman Ave., Outremont, Que.	At. 3933
Heller, Benjamin P.	Arts 4 & Med. 1.	4115 De Bullion St., Montreal	Bel. 7091J
Heller, Helena	Arts 3	5016 Esplanade Ave., Montreal	Bel. 8601F
Helwig, Gerald V.	Ap. Sci. 4. & Arts 4.	348 Sherbrooke St. W., Montreal	Lan. 1567
		Alexandria, P.O., Jamaica, B.W.I.	
Hemmeon, Catharine	Lib. Sch.	738 Sherbrooke St. W., Montreal	Up. 6252
		Wolfville, N.S.	

*Left early in the Session

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Henderson, Donald G.	Med. 2	308 Prince Arthur St. W., Montreal. Huntingdon, Que.	Plat. 7472
Henderson, John T.	Grad. Sch	575 Roslyn Ave., Westmount, Que.	West. 4330
Henderson, John V.	Arts 1	Mount Royal Park, Montreal	Up. 0873
Henderson, Thomas G.	Law 1	20 Summerhill Ave., Montreal	Up. 1350
Hendry, James R.	Com. 2	3485 McTavish St., Montreal 3187 Bloomfield Ave., Montreal.	At. 1090J
Heney, Frederick G. G.	Ap. Sci. 4	3429 Peel St., Montreal Westboro, Ont.	Up. 5947
Henneman, Isidore	Arts 1	560 St. Catherine St. W., Montreal.	Up. 7199
Henry, Edythe H.	Arts 1	450 Strathcona Ave., Westmount, Que.	West. 1626
Henry, Hugh G.	Med. 4	Apt. 18, 143 Mt. Royal Ave. W., Montreal. Lucea, Jamaica, B.W.I.	Bel.7780
Herbert, Charles H.	Grad. Sch	1259 Bishop St., Montreal. c/o Lloyds Bank, 6 Pall Mall, London, S.W. 1, England.	
Herdt, Jacques A.	Arts 4	4328 Sherbrooke St. W., Montreal.	West. 7059
Herman, Harry	Arts 3	5700 Clarke St., Montreal	Cres. 6489
Herman, Michael Charles	Arts 3	176 St. Joseph Blvd. W., Montreal.	Bel. 1750W
Herrington, Frank H.	Med. 2	312 Ballantyne Ave. N., Montreal. 327 N.E. 20th Terrace, Miami, Fla.	Wal. 0857
Herschorn, Lottie R.	Arts 4	704 Bloomfield Ave., Montreal	At. 0229J
Herscovitch, Julius	Arts 3	4615 Park Ave., Montreal	Bel. 4340W
Heusner, John Bernard	Med. 1	95 Hutchison St., Montreal. 85 Regent St., Belize, Br. Honduras, Cent. America.	Plat. 5235
Hewett, Frank S.	Arts 2	3506 University St., Montreal Fortune, Nfld.	Up. 0290
Hewitt, W. A.	Theology	3473 University St., Montreal 47 Rylett Crescent, Shepherd's Bush, W. 12, London, Eng.	Up. 1475
Hickey, Malcolm A.	Arts 2	131 Ballantyne Ave., Montreal West, Que.	Wal. 0941
Higgins, Alton R.	Med. 1	3538 Shuter St., Montreal. 780 Maine St., Lewiston, Me.	Plat. 1968
Hill, M. C. Temple	Com. 3	466 Claremont Ave., Westmount, Que.	West. 3130
Hill, Olive Mary	Arts 1	4901 LaSalle Blvd., Montreal	York 7707J
Hill, W. H. Philip	Arts 2	1445 Mackay St., Montreal.	
Hillyard, Ethel Maud	Grad. Nurses	Children's Mem. Hospital, Montreal. 5 Lincoln Ave., Montreal.	
Hinds, Henry Ewart G.	Arts 3	4913 Western Ave., Montreal	West. 2586
Hines, William S.	Ap. Sci. 1	9 Tara Hall Ave., Montreal. East Noel, Hants Co., N.S.	Plat. 1908
Hirsch, Richard Joseph	Ap. Sci. 2	495 Albert St., Montreal.	
Hise, Fred	Med. 3	2022 Union Ave., Montreal. Canton, Ohio.	Lan. 9436
Hochberg, Lew A.	Med. 2	2071 Peel St., Montreal. 27 Marcy Place, Bronx, N.Y.	Lan. 9359
Hodge, Marjorie M.	Lib. Sch	521 Clarke Ave., Westmount, Que.	West. 4720
Hodgins, Samuel Raymond N.	Grad. Sch	Macdonald College, Que.	
Holbrooke, Geo. L.	Grad. Sch	632 Grosvenor Ave., Westmount, Que. 95 MacLennan Ave., Toronto, Ont.	West. 4321
Hole, Katherine Frances	Arts 3	80, 51st Ave., Lachine, Que.	Lach. 767
Holland, Eleanor I.	Arts 1	374 Clarke Ave., Westmount.	
Holland, Elizabeth A.	Arts 1	134 Ballantyne Ave. N., Montreal West, Que.	Wal. 0602
Holland, George A.	Med. 2	134 Ballantyne Ave. N., Montreal West, Que.	Wal. 0602
Holland, Trevor C.	Ap. Sci. 1	193 Westmount Blvd., Montreal	West. 1744
Holliger, Margaret H.	Arts 2	577 Harvard Ave., Montreal	Wal. 0579
Hollingworth, W. D. Grant	Grad. Sch	246 Wood Ave., Westmount, Que.	
Holmes, Albert N.	Theology 1	3506 University St., Montreal Mundy Pond Rd., St. Johns, Nfld.	Up. 0290
Holmes, John Rodolph	Ap. Sci. 3	29 Belmont St., Montreal	Lan. 4812
Holt, Benjamin D.	Med. 1	646 Lansdowne Ave., Westmount, Que. 548 East Park St., Stockton, Calif.	West. 0793

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Holt, Ernest W	Med. 4	3516 Lorne Ave., Montreal	Up. 2585
Holt, Francis Clark	Com. 4	Room 923, Ritz Carlton Hotel, Sherbrooke St. W., Montreal	Up. 7180
Holt, Matthew C	Law 1	85 Church Hill, Westmount, Que.	West. 4014
Home, John M	Arts 4	775 Sherbrooke St. W., Montreal	Up. 2143
		362 Grand Allée, Quebec, Que.	
Home, Nora	Com. 3	Royal Victoria College, Montreal	Plat. 0078
		Cranbrook, B.C.	
Honeyman, James Arthur M.	Arts 2	3506 University St., Montreal	Up. 0290
		222 Third Ave., Ottawa, Ont.	
Hooker, Lawrence T	Dent. 4	3428 Jeanne Mance St., Montreal	Plat. 4669
		Huntingdon, Que.	
Hoover, Edward Philip	Grad. Sch	2580 Ontario St. E., Montreal	
		1031 Big Falls Ave., Alscon, Ohio	
Hopkins, Henry Perkins	Med. 1	3538 Shuter St., Montreal	Plat. 1968
		Greenfield, N.H.	
Horn, Carl W. L	Com. 1	350 Melrose Ave., N.D.G., Montreal	Wal. 2706
Horne, Fannie, A	Lib. Sch	834 Lorne Crescent, Montreal	Plat. 4269
		Wolfe Island, Ont.	
Horsfall, Frank Lappin	Med. 1	464 Sherbrooke St., Montreal	Lan. 9632
		403, 18th Ave. N., Seattle, Wash.	
Hosking, Fred S	Med. 3	2022 Union Ave., Montreal	Lan. 9436
		242 Iroquois St., Laurium, Mich.	
Hou, Hsiang Ch'uan	Grad. Sch	348 Sherbrooke St. W., Montreal	
		199 Hatamen St., Pekin, China.	
Houghton, Thomas W	Arts 1	730 Upper Belmont Ave., Westmount, Que.	West. 7985
How, George Edwin	Arts 1	155 Marlowe Ave., Montreal	Wal. 5728
Howard, Evelyn	Arts P	655 Grosvenor Ave., Westmount, Que.	
Howard, Harriet Jane	Arts 3	1492 Mountain St., Montreal	Up. 2103
Howard, Harvey	Med. 2	3605 St. Famille St., Montreal	Plat. 6467
		Freeport, Me.	
Howard, Hazel	Arts 1	655 Grosvenor Ave., Westmount, Que.	
Howard, Thomas P	Arts 1	4189 Avenue Rd., Montreal	West. 5530
Howden, John Arthur	Ap. Sci. 1	3610 Clarke St., Montreal	Plat. 2907
		St. Louis de Gonzague, Beauharnois Co., Que.	
Howe, Hazel Mae	Com. 1	Royal Victoria College, Montreal	Plat. 0078
		Shawinigan Falls, Que.	
Howell, Beatrice M	Arts 2	572 Victoria Ave., Westmount, Que.	West. 3993
Howlett, John G	Arts 2	3457 Shuter St., Montreal	Plat. 0370
		64 Prescott St., St. John, N.B.	
Hubbard, Edward R	Med. 2	Strathcona Hall, Montreal	Lan. 1567
		157 High St., Taunton, Mass.	
Hudon, Geraldine F	Arts 2	5028 Western Ave., Montreal	Wal. 5873
Hudson, Jas. Calvert	Grad. Sch	3485 McTavish St., Montreal	Up. 9130
		Adams Cove, Nfld.	
Hughes, Henry G	Arch. 5	3547 University St., Montreal	Plat. 6979
		Royal Oak, B.C.	
Hughes, Helen G. M. (Mrs)	Arts P	2039 University St., Montreal	
Hughson, Robert E	Med. 2	3557 Lorne Ave., Montreal	Plat. 7571
		Columbus, Ohio.	
Hulin, Violet L	Arts 4	320 Wilson Ave., Montreal	Wal. 4576
Hull, Lillian F	Phys. Ed. 1	3466 University St., Montreal	Up. 3369
		Grand Forks, B.C.	
Hulme, Gordon D	Ap. Sci. 1	101 Grey Ave., Montreal	West. 2472
Humphrey, John T. P	Law 2	1494 Mackay St., Montreal	Up. 8230
Hungerford, Lillian H	Arts 2	856A Durocher Ave., Outremont, Que.	At. 6002
Hungerford, Stewart J	Ap. Sci. 2	15 Belvedere Rd., Montreal	West. 5091
Hunt, Andrew Leigh	Med. 2	1487 Mountain St., Montreal	Up. 9655
		Nanaimo, B.C.	
Hunt, Harry B	Med. 4	129 Hutchison St., Montreal	Plat. 0588
		Foremost, Alta.	
Hunter, Gerald F. H	Arts 2	3635 St. Urbain St., Montreal	Plat. 2496
		Huntingdon, Que.	
Hunter, Isabel G. G	Soc. Workers	59 Souvenir Ave., Montreal	Up. 3220W
Hunter, Mary Isobell	Phys. Ed. 1	3466 University St., Montreal	Up. 3369
		8 Crescent Hill, Galt, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Hunter, William Smith	Ap. Sci. 2	59 Souvenir Ave., Montreal 40 Debreslay Ave., Pointe Claire, Que.	Up. 3220W
Hurd, Frederick W.	Law 1	9 Weredale Park, Westmount, Que.	West. 2608
Hutchins, Forbes M.	Arts 3	64 Ontario Ave., Montreal	Up. 5784
Hutchins, John A.	Arts 1	9 St. Georges Place, Westmount, Que.	West. 2602
Hutchinson, Walter J. B.	Ap. Sci. 2	95 Hutchison St., Montreal Fernside, St. Vincent, B.W.I.	Plat. 5235
Hutchinson, Alfred W.	Ap. Sci. 2	3556 Shuter St., Montreal 136 St. Cyrille St., Quebec, Que.	Plat. 4657
Hutchison, James Gordon	Com. 1	26 Aberdeen Ave., Westmount, Que.	West. 3078
Hutchison, William H.	Ap. Sci. 1	26 Aberdeen Ave., Westmount, Que.	West. 3078
Hutchison, Mary Frances	Arts 4	155 Ottawa St., Montreal	Main 8772
Hyams, Samuel F.	Pharm.	154A Querbes Ave., Outremont, Que.	At. 7141J
Hyde, Anne Churchill	Arts 2	490 Argyle Ave., Westmount, Que.	
Hyde, G. Miller	Law 2	702 Pine Ave. W., Montreal	Up. 3688
Hyman, Charles	Com. 3	3490 Shuter St., Montreal 242 Wilbrod St., Ottawa, Ont.	Plat. 4850
Hyndman, Arthur G.	Com. 1	127 Drummond St., Montreal 65 Delaware Ave., Ottawa, Ont.	
Innes, Hilda A.	Phys. Ed. 2	37 Edison Ave., St. Lambert, Que.	St. Lam. 77
Ireland, Laurence	Com. 3	58 Ainslie Rd., Montreal West, Que.	Wal. 0908
Ironstone, Harry R.	Dent. 1	315 Pine Ave. W., Montreal P.O. Box 104, Sudbury, Ont.	Up. 2991
*Irvine, Arthur M.	Ap. Sci. 3	509 Clarke Ave., Westmount, Que.	West. 2483
Irvine, Esther H.	Arts 1	44 Maple Ave., St. Lambert, Que.	St. Lam. 537
Irvine, Ewen R.	Arts P.	59 King Edward Ave., Montreal	Wal. 0166
Irving, Margaret Lillian	Arts 1	214 Birch Ave., St. Lambert, Que.	St. Lam. 444J
Irwin, Donald George	Arts 1	3139 Lafontaine St., Montreal	Clair 6601W
Irwin, Marion L.	Grad Sch.	450 Elm Ave., Westmount, Que. 955 Broughton St., Vancouver, B.C.	
Isbister, Thos. G.	Arts 3	340 Brock Ave. N., Montreal West, Que.	Wal. 2242J
Israel, Wilfred E.	Soc. Workers	119 Mountain St., Montreal	Up. 2585
Israelovitch, Leah	Arts 3	4905 Sherbrooke St. W., Montreal	West. 6901
Issenman, Abbie L.	Arts 4	702 Mount Royal Ave. East., Montreal	Cher. 4588
Ittkin, Paul	Arts 3	5921 Clarke St., Montreal	Cres. 1835
Jackson, Grace A.	Soc. Workers	5951 Molson Ave., Montreal	Cal. 9252
Jacobs, Dorothy	Arts 4	226 Durocher Ave., Outremont, Que.	Cres. 0556
Jacobsen, Eric R.	Ap. Sci. 3	348 Sherbrooke St. W., Montreal 3 Sherman Ave., Mt. Vernon, N.Y.	Lan. 1567
Jacques, Eric C.	Com. 3	348 Sherbrooke St. W., Montreal 276 Sunnyside Ave., Ottawa, Ont.	Lan. 1567
Jankowski, Henry F.	Ap. Sci. 1	3436 Durocher St., Apt. 9, Montreal 52 Cruikshank Ave., Hempstead, N.Y.	Plat. 7517
Jarrett, William A.	Med. 5	3626 St. Urbain St., Montreal Weyburn, Sask.	Plat. 4693
Jehu, Llewellyn	Ap. Sci. 2	157, 24th Ave., Lachine, Que.	Lach. 760J
Jehu, Walter	Ap. Sci. 4	475 Victoria Ave., Westmount, Que. 55 Pine Crescent, Toronto, Ont.	West. 0875
Johansen, Arthur M.	Ap. Sci. 3	81 Sherbrooke St. W., Apt. 13, Montreal 125 Cascade Ave., Shawinigan Falls, Que.	Plat. 1245
Johnson, Edward H.	Arts 2	463 Strathcona Ave., Westmount, Que.	West 1530
Johnson, Elsie C.	Arts 3	463 Strathcona Ave., Westmount, Que.	West. 1530
Johnson, John S.	Arts 3	3581 University St., Montreal 100, 44th Ave., Lachine, Que.	Lach. 208
Johnson, Robert E. L.	Arts 1	536 Grosvenor Ave., Westmount, Que.	West. 2868
Johnson, William W.	Med. 4	3657 Ovenden Ave., Montreal Cambridge, N.Y.	Plat. 5707
Johnston, Agnew H.	Arts 4	3485 McTavish St., Montreal Kemptville, Ont.	Up. 9130

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Johnston, Charles D. G.	Arts 1	797 University St., Montreal	Plat. 0573
		12 Des Grisons St., Quebec, Que.	
Johnston, Harcourt T.	Arts 2	67 McTavish St., Montreal	Up. 9130
		Kemptville, Ont.	
Johnston, H. Wyatt	Grad Sch	25 Bellingham Rd., Outremont, Que.	At. 0831
Joliat, Eugene A.	Arts 1	3546 Park Ave., Montreal	Plat. 0620
Jones, Doris Margaret	Soc. Workers	8490 St. Hubert St., Montreal	Cal. 8051
Jones, George D. O.	Arts. 2 & Ap. Sci. 2	634 Church Ave., Verdun, Que.	York 3511J
Jones, Norman H.	Arts 2	3506 University St., Montreal	Up. 0290
		Cobden, Ont.	
Jones, Richard P.	Med. 3	2019 Stanley St., Montreal	
		Springfield, Me.	
Jones, Robert W.	Com. 3	328 Sherbrooke St. W., Montreal	Wal. 0063
		15 Rennie Ave., Montreal West, Que.	
Jones, Walter Duffin	Ap. Sci. 4	167 Selby St., Westmount, Que.	West. 6178
Jonitz, Robert	Med. 3	3569 Lorne Ave., Montreal	Plat. 5132
		288 Woodside Ave., Newark, N.J.	
Jopling, Thomas R	Ap. Sci. 2	3454 Peel St., Montreal	Up. 6788
		Gaspé Basin, Que.	
Joseph, Brenda	Arts 1	236 Elm Ave., Westmount, Que.	West. 2970
Jotcham, Marjorie H	Arts 1	492 Oxford Ave., Montreal	Wal. 1709
Judson, Charles	Ap. Sci. 3	1515 Chomedy St., Montreal	Plat. 0009
Jue, Gordon Jing	Arts 1	336 Lagauchetiere St. W., Montreal.	Lan. 0310
Kachgensky, Leo	Med. 2	3556 Jeanne Mance St., Montreal	Plat. 1361
		P.O. Box 540, Granby, Que.	
Kahne, Florence	Arts 2	504 Bloomfield Ave., Outremont, Que.	At. 1789
Kalman, Max Myron	Arch. 2	90 Northcliffe Ave., Apt. 7, Montreal	
Kaminski, Josephine J. M.	Med. 2	242 Sherbrooke St. W., Montreal	Plat. 3480
		70 William St., Kingston, Ont.	
Kandelshain, Hyman	Arts 2	4080 City Hall Ave., Montreal	
Kane, Alice E.	Arts 2	1471 Closse St., Montreal	Up. 9591
Kaplan, Mildred Q.	Arts 1	27 Duquette Ave., Montreal	Wal. 7367W
Katz, Bertram L.	Arts 1	3562 Jeanne Mance St., Montreal	Plat. 6643
		232 Daly Ave., Ottawa, Ont.	
Katz, Frances	Arts 4	4067 Colonial Ave., Montreal	Bel. 6032F
Katz, Max Henry	Soc. Workers 1	3460 Durocher St., Montreal	Plat. 4644
		415, 9th St., Brooklyn, N.Y.	
Katz, Sara	Arts P	Apt. 4, 231a Edward Charles St., Montreal	At. 7495J
Katzman, John	Arts 3	3902 St. Urbain St., Montreal	Plat. 3076
Kaufman, Jacob	Com. 2	325 St. Joseph Blvd. W., Montreal	At. 3765
Kaufman, Max Sidney	Arts 1	325 St. Joseph Blvd. W., Montreal	At. 3765
Kaufman, Mark I. H.	Arts 1	295 Prud'homme Ave., Montreal	Wal. 4824
Kay, Muriel	Arts 1	299 Hingston Ave., Montreal	Wal. 0463
Keal, W. C.	Theology	3473 University St., Montreal	Up. 1475
		9 Botham St., Moss Side, Manchester.	
Keating, Muriel A.	Arts 1	806 Durocher Ave., Outremont	At. 0240M
Keith, Marion A.	Arts 4	23, 17th Ave., Lachine, Que.	Lach 1031F
Kellam, Raymond I.	Arts 4	1423 Drummond St., Montreal	Up. 1606W
		Simcoe, Ont.	
Keller, Donald R.	Med. 3	40 Lorne Ave., Montreal	Plat. 5056
		Marshalltown, Iowa.	
*Keller, Hieronimus, Jr	Ap. Sci. 2	404 Burnside Place, Montreal	Up. 2584
Kellnor, Arthur	Med. 5	458 Elm Ave., Montreal	West. 1495
Kelly, George N.	Med. 2	250 Wilson Ave., Montreal	Wal. 6147
		Huntingdon, Que.	
Kelly, Jerome J	Med. 3	763 Bloomfield Ave., Outremont, Que.	At. 5602J
		Renfrew, Ont.	
Kelly, Joseph C.	Arts 1	78 Durocher St., Montreal	
		415 Lafayette St., Ogdensburg, N.Y.	
Kelsey, Ernest S.	Grad Sch	146 Coursol St., Montreal	
Kenna, Catherine Martha	Grad. Sch	457 Sherbrooke St. W., Montreal	
		P.O. Box 57, Antigonish, N.S.	
Kennedy, George Lawrence	Med. 2	317 Pine Ave. W., Montreal	Up. 8731
		The Plaza, Minneapolis, Minn.	
Kenny, Hilda M.	Soc. Workers	21 Condé St., Montreal	Yk. 4717J

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Kent, Joseph C	Med. 2	6 Hutchison St., Montreal	Plat. 1649
		228 Doyle Ave., Providence, R.I.	
Kerry, Esther W	Soc. Workers	660 Sherbrooke St. W., Montreal	Up. 2521
Ketchen, William Arthur	Ap. Sci. 4	49 Brock Ave., Montreal West, Que.	Wal. 0877
		Port Alice, B.C.	
Keysor, Philip S	Med. 3	468 Sherbrooke St. W., Montreal	Lan. 0646
		140 Brinkerhoff St., Plattsburgh, N.Y.	
Kiermyer, Harry	Arts 2	170 Laurier Ave. W., Montreal	Bel. 7793M
Kiesenwetter, Theodore N	Med. 1	67 McTavish St., Montreal	Up. 9130
		170 Third St., Troy, N.Y.	
Kimpton, George B	Com. 2	71 Birch Ave., St. Lambert, Que	
Kincade, Gordon F	Med. 2	3561 Lorne Ave., Montreal	Plat. 0938
		441 Main St., St. John, N.B.	
King, Gilbert H	Arts 1	3536 Jeanne Mance St., Montreal	Plat. 2879
		South Stukely, Que.	
King, James Gordon	Ap. Sci. 1	25 Ontario Ave., Montreal	Up. 3527
King, James Middleton	Com. 3	923 Cote St. Antoine Rd., Montreal.	Wal. 3700
King, Jesse Edward	Arts 4	3473 University St., Montreal	Up. 2173
		Hemmingford, Que.	
King, Lawrence F	Theology 2	3506 University St., Montreal	Up. 0290
		128 Medina St., Victoria, B.C.	
King, Nora Beatrice	Arts P	Apt. 47, The Linton, Sherbrooke St. W., Montreal	
King, Ralph H	Med. 4	317 Pine Ave. W., Montreal	Up. 8731
		Box 99, Bridgetown, Barbados, B.W.I.	
Kingston, Paul T	Med. 3	1208 Drummond St., Montreal	Up. 4115
		Prescott, Ont.	
Kinley, John W	Med. 2	3629 Park Ave., Montreal	Plat. 3919
		104 Hancock Ave., Jersey City, N.J.	
Kirby, Johnson	Med. 3	3454 Peel St., Montreal	Up. 6788
		338 St. Vidal St., Sarnia, Ont.	
Kirschberg, Abraham	Arts 4	372 Roslyn Ave., Westmount, Que.	West. 6459
Kivenko, Nathan M	Com. 4	3797 Arcade St., Montreal	Plat. 6634
Klein, Abraham M	Arts 2	4267 Clarke St., Montreal	Bel. 1407M
Klein, David	D.P.H	146 Laurier Ave. W., Montreal	Bel. 4915
Klein, Herman	Ap. Sci. 2	5412 Casgrain St., Montreal	Cres. 8734
Klein, Simon	Arts 2	721 Wiseman Ave., Outremont, Que.	At. 3389
Kleker, Bernard	Med. 5	5339 Papineau Ave., Montreal	Amh. 2991
Kliger, Harry	Arts 3	6598 St. Lawrence Blvd., Montreal.	
Kline, Frederick S	Arts 1	4034 Dorchester St. W., Westmount, Que	West. 4433
Klineberg, Florence	Arts 4	4059 Dorchester St. W., Westmount, Que	West. 6511
Klineberg, Jack	Law 3	4059 Dorchester St. W., Westmount, Que	West. 6511
Klineberg, Netty V	Arts 1	4059 Dorchester St. W., Westmount, Que	West. 6511
Knowles, Eustace C	Grad. Sch	3506 University St., Montreal	Up. 0290
		7 Selborn Terrace, Bradford, Yorks, England.	
Knowlton, Isobel Nixon	Arts 4	624 Harvard Ave., Montreal	Wal. 2277
Koelsch, Frederic J	Med. 5	3524 University St., Montreal	Up. 9173
		270 Poplar St., Roslindale, Mass.	
Koff, Arthur K	Med. 5	Western Hospital, Montreal	Up. 3230
		Malone, N.Y.	
Koppel, Evelyn M	Arts 1	788 Galt Ave., Verdun, Que	
Korenberg, Louis John	Arts 3	123 Dante St., Montreal	Cres. 5930
Korenberg, Lyon J	Med.2 & Grad. Sch.	5491 St. Urbain St., Montreal	Cres. 2887
Kositsky, A	Arts 4	152 Roy St., Montreal	East 2253M
Kosowatsky, Joseph Rafal	Med. 2	2099 Clarke St., Montreal	Lan. 1490
Kotik, Nochem	Ap. Sci. 1	4118 St. Lawrence Blvd., Montreal.	
Krakower, Abram	Med. 5	5622 Jeanne Mance St., Montreal	Cres. 5787
Krakower, Cecil	Arts 4	5622 Jeanne Mance St., Montreal	Cres. 5787
Kramer, Sasha	Arts 4	153 Mansfield St., Montreal	Lan. 2354
Krepela, Miles C	Med. 3	320 Prince Arthur St. W., Montreal	Plat. 0761
		3150, 33rd St., Long Island City, N.Y.	
Kritzwiser, Orville E	Arts 2	3520 University St., Montreal	Up. 5500
		1317, 15th Ave., Regina, Sask.	
Krohn, Stuart E	Med. 3	348 Sherbrooke St. W., Montreal	Lan. 1567
		22 Faxton St., Utica, N.Y.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Kronick, Samuel A	Com. 1	4602 Esplanade Ave., Montreal Ottawa, Ont.	
Kruger, Irving	Arts 3	3719 De Bullion St., Montreal	Lan. 8335
Krupkin, Nathan	Med. 3	724 Sherbrooke St. W., Montreal	Up. 4250
		1115 Boyd St., Watertown, N.Y.	
Kussner, Murray I	Arts 1	113 St. Joseph Blvd. W., Montreal	Bel. 6108
Kydd, Mary Winnifred	Arts P	250 Sherbrooke St. W., Montreal	
Kyle, George A	Com. 1	467 Cote St. Antoine Rd., Westmount, Que.	West. 2495
Labkov, Samuel	Dent. 3	376a St. Antoine St., Montreal	Up. 6150
Lacey, Edward	Arts P	3506 University St., Montreal	Up. 0290
		Grand Falls, Nfld.	
Lack, David	Arts 4 & Med. 1	4175 St. Urbain St., Montreal	Bel. 8828J
Lafave, Wallace John	Arts 1	32 Courcelette Ave., Outremont, Que.	At. 4928
Lafleur, Henri G	Arts 3	3527 Ontario Ave., Montreal	Up. 3838
Lafleur, Roland Joseph	Arts 2	1445 Drummond St., Montreal Louiseville, Que.	
Laidley, Wendell Howard	Law 3	5040 Park Ave., Montreal	At. 1902
Laing, Addison K	Ap. Sci. 2	3516 Shuter St., Montreal	Plat. 3310
		9 South St., Hamilton, Ont	
Laing, David Alex .S	Ap. Sci. 2	3578 University St., Montreal	Up. 9109
		42 Rich Ave., Mt. Vernon, N.Y.	
Laishley, Lyle Manuel	Arts 2	3647 University St., Montreal	Plat. 5070
		514 Lyon St., Ottawa, Ont.	
Laite, Florence B	Grad. Nurses	1237 Guy St., Montreal	Up. 5813
		Britannia, Newfoundland.	
Lambart, H. Hyacinthe	Arts 2	Royal Victoria College Annex, Montreal	Up. 2534
		7 Rideau Gate, Ottawa, Ont.	
Lamoureux, Marcel	Ap. Sci. 1	369 Roy St. E., Montreal	East 2468F
		St. Guillaume, Que.	
Lancey, Margaret S	Arts 1	369 Metcalfe Ave., Westmount, Que.	West. 0426
		Hudson, Que.	
Land, Jacob	Med. 3	3655 Jeanne Mance St., Montreal	Plat. 3728
		11 Lingan Rd., Sydney, N.S.	
Lande, Bernard J	Arts 2	641 Roslyn Ave., Westmount, Que.	West. 7486
Lande, Harold Bernard	Arts 3	513 Grosvenor Ave., Westmount, Que.	West. 0215
Lande, Laurence Montague	Arts 4	641 Roslyn Ave., Westmount, Que.	West. 7486
Lande, Rhoda M	Arts 3	513 Grosvenor Ave., Westmount, Que.	West. 0215
Lang, Abraham I	Arts 4	4900 Clarke St., Apt. 5, Montreal	Bel. 5486
Lang, C. R	Theology	3473 University St., Montreal	Up. 1475
		Charteris, Que.	
Langlais, Paul	Arch. 1	3736 St. Denis St., Montreal 8 Bernière Ave., Quebec, Que.	
Langstaff, Thomas Albert K.	Com. 1	348 Sherbrooke St. W., Montreal	Lan. 1567
		Kemptville, Ont.	
Languedoc, Maria Adele de G.	Arts 3	44 Lincoln Ave., Montreal	Up. 7416
Lapin, Albert	Arts 1	2525 Hutchison St., Montreal	Cres. 6486
Lapin, Abraham	Arts 3	5465 Esplanade Ave., Montreal	Cres. 4335
*Lapin, Benjamin	Ap. Sci. 1	5467 Esplanade Ave., Montreal	Cres. 4618
Laplante, J. Paul	Med. 4	1238 Ontario St. E., Montreal	Amh. 1374
Laporte, Leo C	Ap. Sci. 4	3734 Jeanne Mance St., Montreal	Plat. 4501
Larkin, Edward A	Arts 4	3576 Durocher St., Montreal	Plat. 1326
		529 So. 2nd Ave., Mt. Vernon, N.Y.	
Latham, Sylvine E	Arts 2	267 Regent Ave., Montreal	Wal. 0846
Lauer, Howard L	Com. 2	508 Old Orchard Ave., Montreal	Wal. 1146
Launder, William C	Arts 1	2022 McGill College Ave., Montreal	Lan. 9509
		69 South 20th St., Flushing, N.Y.	
Laurelli, Edmond C	Med. 3	468 Sherbrooke St., W., Montreal	Lan. 0646
		12 Bainbridge Ave., Providence, R.I.	
Laurie, Alfred F	Arts 1	858 McEachran Ave., Montreal	At. 4649
Lavallée, Arsene R	Law 1	126 City Councillors St., Montreal	Plat. 5734
		36 Gaspard St., Joliette, Que.	
Laverty, Arthur Edward	Law 3	461 Mt. Stephen Ave., Westmount, Que.	West. 2 156

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Lawrence, Leonie J.	Arts 4	5101 Sherbrooke St. W., Montreal	Wal. 6507
Lawrence, Mona M.	Arts 1	1 Carlton Rd., Montreal	Up. 3715
Lazarovitz, Sadie	Law 3	4163 Esplanade Ave., Montreal	Bel. 4658F
		18 De Salaberry Ave., Quebec, Que.	
Lazarus, Annie	Com. 1	156 Vendome Ave., Montreal	Wal. 0766W
Lazarus, Goldie R.	Arts 1	745 Rockland Ave., Outremont, Que.	At. 2375
Leacy, William B.	Com.2	3637 University St., Montreal	Plat. 2681
		Prescott, Ont.	
LeBaron, Emily Josephine	Phys. Ed. 1	3466 University St., Montreal	Up. 3369
		North Hatley, Que.	
LeBaron, Roger N.	Com. 1	466 Sherbrooke St. W., Montreal	Lan. 5778
		North Hatley, Que.	
Lee, John G.	Med. 5	Apt. 5, 42 St. Mark St., Montreal	Up. 6611
		10005, 103rd St., Edmonton, Alta.	
Lee, Phyllis B. M.	Arts 1	232 Montclair Ave., Montreal	Wal. 3142
Leggat, Margaret J.	Arts 1	1511 Crescent St., Montreal	Up. 3787
Legge, Robert F.	Med. 3	317 Pine Ave. W., Montreal	Up. 8731
		6 Roble Rd., Berkeley, California	
LeGrow, Walter H.	Theology 1	3506 University St., Montreal	Up. 0290
		Broad Cove, Newfoundland	
Leigh, Dawson M.	Lib. Sch.	3539 Lorne Ave., Montreal	Plat. 5868
		Wolfe Island, Ont.	
Leigh, Morton D.	Med. 1	3592 Durocher St., Montreal	Plat. 6996
		Revelstoke, B.C.	
Leithman, Ezra	Arts 4	3620 Colonial Ave., Montreal	
LeMesurier, Harold B.	Com. 1	705 Querbes St., Outremont, Que.	At. 5359
LeMoine, John G. M.	Arts 4	Chateau Apts., E. 40, 621 Sherbrooke St. West	Up. 4335
		P.O. Box 520, Quebec, Que.	
Leonard, Maurice E.	Med. 1	3478 McTavish St., Montreal	Up 9359W
		639 Buena Vista, San Francisco, Calif.	
Lerner, Gertrude	Arts 3.	Apt. 7 4086 St. Denis St., Montreal	Bel. 2091J
LeSage, Earl E.	Med. 3.	2031 Mt. Royal Ave. E., Montreal	Amh. 3284
Leslie, Edgar T.	Arts 2	128 Merton Ave., St. Lambert, Que.	St. Lam. 525F
		1347½ W. 4th St., Los Angeles, Calif.	
Lester, Harold G.	Arts 3	196 Ash Ave., Montreal	
Letch, Harry George	Ap. Sci. 2	66 Oak Ave., St. Lambert, Que.	St. Lam. 889
Letendre, Gerard	Ap. Sci. 1	562 Mount Royal E., Montreal	Bel. 4773
Levencrown, Moses	Arts 2	3693A City Hall Ave., Montreal	Lan. 8329
Leveque, Cedric Philip	Med. 5	422 Marcil Ave., Montreal	Wal. 3351
Levie, Richard H.	Arts 1	3524 Shuter St., Montreal	Plat. 5068
		86 St. Louis Rd., Quebec, Que.	
Levinson, Martin	Com. 2	5035 Jeanne Mance St., Montreal	Bel. 6677W
		180 Osgoode St., Ottawa, Ont.	
Levin, Rose	Arts 2	5691 Park Ave., Montreal	Cres. 6846
Levine, Robert	Arts 3	838 Durocher Ave., Outremont, Que.	At. 1786
Levine, Theodore Israel	Arts 2	1686 Hutchison St., Montreal	At. 4345
Levitsky, Nathan A.	Arts 1	3535 St. Urbain St., Montreal	Plat. 0451
Levitsky, Philip	Arts 2	41 St. Joseph Blvd. W., Montreal	Bel. 8911W
Levitt, Rachel	Soc. Workers 2	323 Grosvenor Ave., Westmount, Que.	West. 8948
Lewis, Beaufort S.	Arts 1	547 Wilson Ave., Montreal	Wal. 0002
Lewis, David	Arts 1	4246 Colonial Ave., Montreal	Bel 3889J
Lewis, William W.	Arts 1	547 Wilson Ave., Montreal	Wal. 0002
Liang, Florence S. C.	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		Tientsin, China	
Lighthall, Lyle C.	Arts 4	Diocesan Theological College, Montreal	Up. 2173
		Hawkesbury, Ont.	
Lindsay, Dorothy V.	Phys. Ed. 1	Halcyon Apt., Apt. 20, Durocher St. Montreal	Plat. 2588
Lipsey, Marjorie C.	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		Thetford Mines, Que.	
Lipson, Barnett	Med. 5	2067 Jeanne Mance St., Montreal	Plat. 5346
		44 Cordova St. W., Vancouver, B.C.	
Lirot, Stephen Leo. R.	Med. 2	3675 St. Urbain St., Montreal	Plat. 2634
		28 Crown St., Meriden, Conn.	
Lister, William	Theology	608 Westminster Ave., Montreal West, Que.	

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Litner, David	Arts 4	247 Mt. Royal Ave. West, Montreal	At. 3830W
Little, John William	Grad. Sch.	3637 University St., Montreal 83 Central Ave., London, Ont.	Plat. 2681
Little, S. C.	Theology	3473 University St., Montreal R.R. 2, Bolton, Ont.	Up. 1475
Littlefield, Leland A.	Med. 2	468 Sherbrooke St. W., Montreal 41 Orchard St., Cambridge, Mass.	Lan. 0646
Littlehales, John H.	Arts 1	308 Prince Arthur St. W., Montreal R.C.M.P. Barracks, Regina, Sask.	Plat. 7472
Liva, Giusto Albin.	Med. 3	579 Union Ave., Montreal 149 Bay, 38th St., Brooklyn, N.Y.	Plat. 2332
Livshitz, Clarice S.	Arts 2	497 Lansdowne Ave., Westmount, Que.	West. 1976
Lloyd, F. Llewellyn	Arts 3	3501 University St., Montreal	Plat. 4528
Lochhead, Kenneth Young	Arts 1	42, 10th Ave., Lachine, Que.	Lach. 337
Lochhead, Gordon W.	Com. 2	309 Brock Ave. N., Montreal West, Que.	Wal. 0498
Long, Cyril Norman H.	Med. 5	Apt. 54, Chalfonde Apts., Mansfield St., Montreal 488 Wilbraham Rd., Manchester, Eng.	Lan. 9477
*Long, Eva	Soc. Workers 1	331 Clark Ave., Westmount, Que.	West. 1079
Longworth, Nora Blackwood	Com. 3	Royal Victoria College, Montreal Charlottetown, P.E.I.	Plat. 0078
Lord, Thomas Dyson	Arts 1	1487 Mountain St., Montreal	Up. 9655
Lore, William	Arts 1	11 Lagauchetiere St. W., Montreal 2126 Ridge Road, Victoria, B.C.	Lan. 5881
Lough, Hubert O.	Med. 5	1087 Greene Ave. W., Montreal	West. 3738
Louis, Ben Leopold	Arts 2	214 Villeneuve St. W., Montreal	Bel. 9765
Loures, Peter Harry	Arts 2	1229 Mountain St., Montreal 165 Worthen St., Lowell, Mass.	Up. 0961
Louson, Ian Herbert	Arts 1	4227 Dorchester St. W., Montreal	West. 0052
Love, Alan Blair	Com. 1	776 Wilder Ave., Outremont	At. 0948
Lovering, William L.	Com. 1	3637 University St., Montreal 76 Glen Rd., Toronto, Ont.	Plat. 2681
Low, Charles D	Ap. Sci. 3	3435 Shuter St., Montreal 376 Lewis St., Ottawa, Ont.	Plat. 2648
Low, Ruth Margaret	Arts 2	8490 St. Hubert St., Montreal	Cal. 8051
Lowery, Clifford F.	Com. 1	348 Sherbrooke St. W., Montreal Cobalt, Ont.	Lan. 1567
Lucas, James Roberts	Med. 1	3569 Durocher St., Montreal 61 Chester St., Stewart Manor, L.I., N.Y.	Plat. 6815
Luke, Josephus C.	Med. 2	41 Brock Ave. N., Montreal West	Wal. 0710
Lunn, Frederick R.	Ap. Sci. 3	458 Argyle Ave., Westmount, Que.	West. 1630
Lunn, Stanley K.	Arts 2	458 Argyle Ave., Westmount, Que.	West. 1630
Luther, Douglas L.	Com. 1	581 Sherbrooke St. W., Montreal	Up. 4188
Lutterman, Jack S.	Pharm	4804 Colonial Ave., Montreal	Bel. 8418J
Lynch, John G.	Med. 1	3637 University St., Montreal Wabana, Newfoundland.	Plat. 2681
Lyon, Yvonne Taschereau	Lib. Sch.	1254 Mackay St., Montreal	
Lyons, A. Calder	Arts 4	2026 McGill College Ave., Montreal 26 Dufferin Ave., Brantford, Ont.	Lan. 8610
Lyons, Clarence Owen	Pharm	152 Durocher St., Montreal	Plat. 2088
Lyons, Ivan Herbert	Pharm	152 Durocher St., Montreal	Plat. 2088
Lyons, Robert H.	Pharm	152 Durocher St., Montreal	Plat. 2088
Lyons, Walter	Ap. Sci. 4	3479 Shuter St., Montreal 1051 Boston Road, New York, N.Y.	Plat. 5410
Lyster, Norman C.	Med. 3	1499 Crescent St., Montreal Kennedy, Sask.	Up. 5432
Lytle, Cassie Lillian	Arts 4	Royal Victoria College, Montreal Elkton, Maryland.	Plat. 0078
Macalister, Jean Redmond	Arts 2	Royal Victoria College, Montreal 23 Aberdeen St., Quebec, Que.	Plat. 0078
Macalister, John Norman G.	Arts 1	4132 Dorchester St. W., Montreal	West. 3863
McArthur, James Edward	Med. 4	3563 Park Avenue, Montreal Grand Mira, C.B.	Plat. 1805

*Left early in the Session.

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
McBride, Thomas James	Com. 1	3520 University St., Montreal Avonmore, Ont.	Up. 5500
McBroom, Walter W	Arts 1	5299 Jeanne Mance St., Montreal	Cres. 1012
McCabe, Claude E. A	Dent. 4	7043 St. Denis St., Montreal P.O. Box 73, Valleyfield, Que.	Cal. 0965
McCabe, Homer M	Dent. 4	23 Lorne Ave., Montreal 177 Congress St., Buffalo, N.Y.	Plat. 7406
McCabe, Russell Irving	Ap. Sci. 2	3609 University St., Montreal Windsor Mills, Que.	Plat. 3464
McCall, Muriel B	Soc. Workers 2	1469 McKay St., Montreal Selkirk, Man.	Up. 5041F
MacCarthy, Henry B	Ap. Sci. 4	3605 University St., Montreal 110 Lisgar St., Ottawa, Ont.	Plat. 0354
McCarthy, John Albert	Arts 1	494 Old Orchard Ave., Montreal	Wal. 2494
McCarthy, Lilian Pearl	Arts P	Apt. 56, 1174 St. Mark St., Montreal. 63 Chestnut Ave., Brantford, Ont.	
McCauley, Madeline M	Arts 3	4837 Western Ave., Westmount, Que.	West. 1913
McClure, James C	Med. 5	4637 Sherbrooke St. W., Montreal Cowansville, Que.	West. 6575
McConnell, Wilson G	Ap. Sci. 2	705 Pine Ave., Montreal	Up. 1612
McConvry, Gorman R	Ap. Sci. 4	3578 University St., Montreal 392 Dufferin Ave., London, Ont.	Up. 9109
McCormick, George A	Arts 2	3609 University St., Montreal 383 Wilbrod St., Ottawa, Ont.	Plat. 3464
McCrimmon, Donald Ross	Arts 3	348 Sherbrooke St. W., Montreal Huntingdon, Que.	Lan. 1567
McCrimmon, Frederick G	Med. 2	348 Sherbrooke St. W., Montreal Huntingdon, Que.	Lan. 1567
McCulloch, John H	Ap. Sci. 3	133 Stanley St., Apt. 3, Montreal New Glasgow, N.S.	Up. 7943
McCully, Clarence M	Arts 1	Central Y.M.C.A., Montreal Petitcodiac, N.B.	Up. 6500
McCurdy, Donald R	Arts 2	775 Sherbrooke St. W., Montreal Franklyn St., Halifax, N.S.	
MacDonald, Alfred P	Med. 3	3553 Lorne Ave., Montreal 31 West 129th St., New York, N.Y.	
MacDonald, Dorothy Ada	Arts 3	447 Mt. Stephen Ave., Westmount, Que.	West. 6116
McDonald, Howard Alex	Med. 4	320 Prince Arthur St. West., Montreal Saskatoon, Sask.	Plat. 0761
Macdonald, Ian Gibbs	Med. 5	358 Beaconsfield Ave., Montreal	Wal. 5096
MacDonald, James K. L	Grad. Sch	2077 Union Ave., Montreal	
Macdonald, John Wilkes	Theology	3485 McTavish St., Montreal Trenton, N.S.	Up. 9130
MacDonald, Kathleen L. L	Phys. Ed. 2	3622 Lorne Crescent, Montreal 11 Coburg Rd., Halifax, N.S.	Plat. 1588
Macdonald, Muriel T	Phys. Ed. 2	3466 University St., Montreal 20 Mountain St., Granby, Que.	Up. 3369
Macdonald, Neil Douglas	Med. 1	3454 Peel St., Montreal 326 St. Joseph St., Lachine, Que.	Up. 6788
McDonald, Phillip Robb	Arts 2	544 Sherbrooke St. W., Montreal Valleyfield, Que.	Up. 2264
MacDonald, Reta E	Arts 2	4358 St. Catherine St. W., Westmount, Que.	West. 1278
McDonald, W. Oswald	Med. 5	2336 Jeanne Mance St., Montreal 216 King St. E., St. John, N.B.	Cres. 4283
McDougall, Allan H	Com. 2	617 Roslyn Ave., Westmount, Que.	West. 4142
McDougall, Barbara D	Phys. Ed. 1	3466 University St., Montreal Penticton, B.C.	Up. 3369
MacDuff, Ruby R	Lib. Sch	1070 Bleury St., Montreal 9 Valois Ave., Valois, Que.	
McDunnough, Phillip N	Ap. Sci. 1	3556 Shuter St., Montreal 11 Fraser St., Quebec, Que.	Plat. 4657
McEwen, Marjorie J	Arts 2	3651 Park Ave., Montreal Huntingdon, Que.	Plat. 4542
McEwen, Bennett B	Med. 1	3506 University St., Montreal Maxville, Ont.	Up. 0290
McEwen, Ruth G	Lib. Sch	86 Grand Blvd., Montreal	Wal. 2467W
Macfarlane, Annie Margaret	Arts 2	635 Sydenham Ave., Westmount, Que.	West. 4144

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Macfarlane, Charlotte J.	Arts P.	128 Cedar Ave., Montreal	Up. 4678
MacGachen, Freda K.	Arts 3.	242 Redfern Ave., Westmount, Que.	West. 6368
McGerrigle, Andrew James.	Arts 4.	215 Milton St., Montreal Ormstown, Que.	Plat. 1851
McGerrigle, Clarence J.	Theology 2.	3506 University St., Montreal Ormstown, Que.	Up. 0290
MacGibbon, Kenneth W.	Ap. Sci. 1.	3520 University St., Montreal Brownsburg, Que.	Up. 5500
McGiffin, John Wellington.	Arts 1.	14 Grenville Ave., Westmount, Que.	West. 8219
McGowan, James.	Theology.	3485 McTavish St., Montreal Kilmuir, P.E.I.	Up. 9130
McGreevy, Brian I.	Arts 2.	791 University St., Montreal 2 De Brebeuf St., Quebec, Que.	Plat. 1352
McGreggs, Francis James.	Arts 1.	St. Albans, Vt.	
MacGregor, Elizabeth M.	Phys. Ed. 2.	224 Belgrave Ave., Montreal	Wal. 2212
McGregor, Frank Roy.	Med. 3.	320 Prince Arthur St. W., Montreal. Belmont Honse, Victoria, B.C.	Plat. 0761
McGuire, James F.	Arts 1.	3706 Park Ave., Montreal	Plat. 5520
McInerney, James P.	Med. 4.	1450 McGill College Ave., Montreal. 88 Orange St., St. John, N.B.	Lan. 9791
McInnis, James A.	Ap. Sci. 3.	3520 University St., Montreal Wallace Ridge, N.S.	Up. 5500
McInnis, Sarah.	Grad. Sch.	28 Windsor Ave., Westmount, Que.	
McIntosh, Isabel McL.	Soc. Workers.	45 Third Ave., Verdun, Que. Lancaster, Ont.	York 7175
McIntosh, M. Ola.	Arts 1.	692 Victoria Ave., Westmoun,t Que.	West. 0580
McIntyre, George D.	Arts 1.	536 Notre Dame de Grace Ave., Montreal	Wal. 0668
McKay, Chipman O.	Med. 3.	308 Prince Arthur St. W., Montreal. 28 Wright St., St. John, N.B.	Plat. 7472
McKay, Doris G.	Lib. Sch.	261 Hampton Ave., Montreal 654, 10th Ave. W., Vancouver, B.C.	Wal. 1510
MacKay, Edna F.	Arts 1.	725 Rockland Ave., Outremont, Que.	At. 1075
MacKay, Robert De Wolfe.	Arts 4.	1463 Bishop St., Montreal	Up. 9552
McKeig, Harold W.	Arts 1.	3506 University St., Montreal 28 Ball Ave., Galt, Ont.	Up. 0290
McKelvey, Morley Alex.	Arts 4.	151 Brock Ave. S., Montreal West, Que.	Wal. 2863
McKelvy, Thelma.	Phys. Ed. 1.	548 Sherbrooke St. W., Montreal. 201 Victoria Ave. N., Hamilton, Ont.	Up. 5942
Mackenzie, Archibald F.	Arts 1.	27 Linton Apts., Montreal	Up. 6020
Mackenzie, Angus W. R.	Theology.	3485 McTavish St., Montreal Portree, Scotland.	Up. 9130
Mackenzie, Angus William.	Arts 1.	Presbyterian College, Montreal. Spencerville, Ont.	
MacKenzie, David W.	Arts 2.	3437 Redpath St., Montreal	Up. 1041
MacKenzie, Elspet.	Arts P.	731 Sherbrooke St. W., Montreal.	Up. 1008
Mackenzie, John Cumming.	Med. 5.	320 Prince Arthur St. W., Montreal. Inverlochy, Westfield Beach, N.B.	Plat. 0761
MacKenzie, Margaret E.	Phys. Ed. 2.	91 Bedbrook Ave., Montreal West, Que.	Wal. 0945M
MacKenzie, Maxwell H. W.	Com. 4.	4302 Montrose Ave., Montreal	West. 1568
MacKenzie, Norena S.	Grad. Nurses.	Montreal General Hospital, Mont- real. Newtonville, Ont.	Lan. 4101
MacKercher, Donald A.	Med. 5.	3496 Jeanne Mance St., Montreal. Box 422, Maxville, Ont.	Plat. 4391
McKergow, Alfred T.	Arts 4.	348 Sherbrooke St. W., Montreal. Waterloo, Que.	Lan. 1567
McKergow, Laura B.	Arts 1.	Royal Victoria College, Montreal. Waterloo, Que.	Plat. 0078
McKibbon, Leita Y.	Phys. Ed. 2.	3466 University St., Montreal 12118, 105th Ave., Edmonton, Alta.	Up. 3369
MacKinnon, Charles W.	Com. 1.	3485 University St., Montreal Charlottetown, P.E.I.	Up. 9130
MacKinnon, Eleanor King.	Arts 1.	Royal Victoria College, Montreal. 65 Portland Ave., Sherbrooke, Que.	Plat. 0078
MacKinnon, Jean D.	Arts 1.	Royal Victoria College, Montreal. 65 Portland Ave., Sherbrooke, Que.	Plat. 0078

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		Lachute, Que.	
McKyes, Eileen J.	Phys. Ed. 1.	71 Milton St., Montreal.	Plat. 3535
McLaurin, Jean	Lib. Sch.	3500 Durocher St., Apt. 2, Montreal.	Plat. 0418
		Vankleek Hill, Ont.	
Maclean, Ethel M.	Med. 3.	3492 Peel St., Montreal.	Up. 2132
		4312 Pine Crescent, Vancouver, B.C.	
McLean, Jean A.	Arts 3.	79 Cabot St., Montreal.	York 0467
MacLean, Lorne A.	Med. 1.	3506 University St., Montreal.	Up. 0290
		North Wiltshire, P.E.I.	
McLean, Sterling A.	Arts 1.	2042 Victoria St., Montreal.	Lan. 2569
		17 South Russell St., Plymouth, Mass.	
MacLean, Wm.	Arts 1.	821 Rochon St., Montreal.	At. 5344W
		Aberdeen, Scotland	
McLeay, Roderick D. N.	Com. 3.	233 Clifton Ave., N.D.G., Montreal.	Wal. 3075
		Melbourne, Que.	
McLeish, Margaret B.	Arts 2.	551 Earnscliffe Ave., N.D.G., Montreal.	Wal. 4692
MacLellan, James D.	Arts 3.	3485 McTavish St., Montreal.	Up. 9130
		R.F.D. No. 2, New Glasgow, N.S.	
McLellan, Norman W.	Med 4.	3485 Durocher St., Montreal.	Plat. 4702
		3235, 39th Ave., W., Vancouver, B.C.	
McLelland, Joyce E.	Arts 4.	396 Harvard Ave., Montreal.	Wal. 0290
MacLennan, David A.	Med. 4.	Strathcona Hall, Montreal.	Lan. 1567
		Campbellton, N.B.	
MacLennan, Helen B.	Med. 1.	17 Holton Ave., Westmount, Que.	West. 8949
MacLennan, Malcolm.	Law 2.	3449 University St., Montreal.	Plat. 5033
		Scotstown, Que.	
MacLeod, Colin M.	Med. 1.	578 William David St., Montreal.	Clair. 8048
MacLeod, John W.	Med. 3.	1452 Union Ave., Montreal.	Lan. 7742
MacLeod, Malcolm D.	Grad. Sch.	299 Prince Arthur St. W., Montreal	
		Cross Roads P.O., Jamaica, B.W.I.	
McLetchie, James Kennedy.	Grad Sch.	129 Hutchison St., Montreal.	
McLure, Florence I.	Arts 1.	1620 Aird Ave., Montreal.	Clair. 5655W
McMartin, Catherine N.	Arts 4.	4727 Western Ave., Westmount, Que.	West. 0870
McMartin, William F.	Arts 2.	4727 Western Ave., Westmount, Que.	West. 0870
McMaster, David Ross.	Arts 2.	43 McGregor St., Montreal.	Up. 0103
McMaster, William R.	Com. 2.	21 Renfrew Rd., Westmount, Que.	West. 3971
MacMillan, Donald N.	Arts 3.	3485 McTavish St., Montreal.	Up. 9130
		Finch, Ont.	
MacMillan, Margaret B.	Phys. Ed. 1.	3466 University St., Montreal.	Up. 3369
		302 Sask. Crescent. Saskatoon, Sask.	
McNamee, Kenneth Francis.	Arts 2.	281 Querbes Ave., Outremont, Que.	At. 1497
McNamee, Thomas F.	Law 1.	281 Querbes Ave., Outremont, Que.	At. 1497
McNaught, Mary R.	Arts 3.	1452 Bishop St., Montreal.	
Mcnaughton, Alan A.	Law 2.	251 Hingston Ave., Montreal.	Wal. 1567
MacNaughton, Cecil H.	Law 2.	358 Melrose Ave., Montreal.	Wal. 1624M
McNaughton, Ethel P.	Arts 4.	4565 Sherbrooke St., Westmount, Que.	West. 1408
McNaughton, Francis L.	Med. 2.	4565 Sherbrooke St., Westmount, Que.	West. 1408
McNaughton, John G.	Arts 1.	4565 Sherbrooke St., Westmount, Que.	West. 1408
McNaughton, Malcolm E.	Ap. Sci. 3.	4565 Sherbrooke St., Westmount, Que.	West. 1408
McNaughton, Margaret E.	Phys. Ed. 1.	5804 Park Ave., Montreal.	Cres. 3992
MacNeil, Cortland W.	Com. 1.	17 Hope Ave., Montreal.	
McNeill, D. Margaret M.	Arts 2.	45 Hutchison St., Montreal.	Plat. 7462
		108 Buell St., Brockville, Ont.	
MacOdrum, William.	Grad. Sch.	3485 McTavish St., Montreal.	Up. 9130
		Mineral Rock, Cape Breton, N.S.	
McPhail, Hugh.	Theology 3.	3506 Universtity St., Montreal.	Up. 0290
		Renfrew, Ont.	
McRae, Duncan R.	Grad. Sch.	581 Dorchester St. W., Montreal	
		Bainsville, Ont.	

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McRae, Helen J.	Phys. Ed. 2.	91 Hutchison St., Montreal 8880 Clarendon Ave. N., Detroit, Mich.	Plat. 1370
MacPherson, John Thomas.	Grad. Sch.	348 Sherbrooke St. W., Montreal Moncklands Station, Ont.	Lan. 1567
McRae, Lorne F.	Dent. 4.	22, 42nd Ave., Lachine, Que.	Lach. 613
McRoberts, Jerry W.	Med. 4.	308 Prince Arthur St. W., Montreal. Weyburn, Sask.	Plat. 7472
MacTavish, Alison C.	Lib. Sch.	44 Bishop St., Montreal	Up. 1086
McTeer, George S.	Com. 1.	1066 Roslyn Rd., Victoria, B.C. 3555 University St., Montreal	Plat. 0753
MacVey, Mary M. E.	Arts 1.	1934, 12th St. W., Calgary, Alta. Royal Victoria College, Montreal	Plat. 0078
MacVicar, Donald H.	Grad. Sch.	217 George St., Fredericton, N.B. 3506 University St., Montreal	Up. 0290
Macey, Henry P.	Med. 1.	Tara, Ont. 3535 Shuter St., Montreal	Plat. 5154
Mack, Richard G.	Med. 1.	Minnedosa, Man. 3580 Lorne Ave., Montreal	Plat. 4996
Magid, Meilach.	Arts 3.	705 Main St., Slatington, Pa. 4479 Esplanade Ave., Montreal	Bel. 0016W
Magid, Rose.	Grad. Nurses.	317 St. Joseph Blvd., Montreal	At. 5742
Magil, Louis B.	Pharm.	5234 Clarke St., Montreal	Cres. 3679
Magnan, Robert A.	Dent. 3.	1273 St. André St., Montreal	East. 0858
Magor, Philip D.	Ap. Sci. 3.	524 Mount Pleasant Ave., Westmount, Que.	West. 1169
Mahoney, Hugh R.	Ap. Sci. 4.	3543 St. Famille St., Montreal	Plat. 2014
Mahoney, John J.	Dent. 3.	387 Mance St., Montreal	Plat. 2816
Mahoney, Lewis D.	Ap. Sci. 3.	Chateauguay, N.Y. 3543 St. Famille St., Montreal	Plat. 2014
Main, Valentine A.	Phys. Ed. 1.	598 Lansdowne Ave., Westmount, Que.	West. 7592
Makiyama, Richard.	Arts 2.	130 Vendome Ave., N.G.D., Montreal 62 Tansumachi, Azabu, Tokio, Japan.	Wal. 6919
Malamud, Anne.	Arts 4.	4601 Esplanade Ave., Montreal	Bel. 7201F
Malamud, Nathan.	Med. 3.	7620 St. Hubert St., Montreal	Cal. 6156J
Malcoff, Sam.	Pharm.	5140 Mance St., Montreal	Cres. 0691
Malinsky, Maurice L.	Arts 4.	361 St. Catherine St. W., Montreal.	Lan. 0908
Malkin, John Locke.	Com. 2.	304 Prince Arthur St. W., Montreal. 3260 Marine Drive, Vancouver, B.C.	Plat. 3624
*Malloy, Connolly J.	Med. 1.	3431 Jeanne Mance St., Montreal... Blind River, Ont.	
Malloy, John D.	Med. 3.	3431 Jeanne Mance St., Montreal.. Blind River, Ont.	
Manion, James P.	Com. 3.	3559 University St., Montreal 813 Donald St., Fort William, Ont.	Plat. 3151
Manion, Paul D.	Com. 2.	3559 University St., Montreal 813 Donald St., Fort William, Ont.	Plat. 3151
Manley, Frederick C.	Law 1.	834 Dorchester St. W., Apt. 3, Montreal	Up. 8146
Mansell, Lloyd C.	Arts 1.	93 Mariette St., Montreal Iroquois Falls, Ont.	
Manson, Charles A.	Ap. Sci. 3.	1024 Lajoie Ave., Outremont, Que.	Cres. 3524
Manson, Robert E.	Ap. Sci. 2.	776 Durocher St., Apt. 5, Montreal.	At. 5357
Marchand, Paul R.	Dent. 2.	3681 Park Ave., Montreal	Plat. 1275
Marcou, Audrey D.	Phys. Ed. 1.	489 Oxford Ave., Montreal	Wal. 2240
Marcou, Henderson H.	Arts 4.	483 Grosvenor Ave., Westmount, Que.	West. 0541
Marcovitch, Malo Ralph.	Pharm.	9 Villeneuve St. E., Montreal	
Marcovitz, Jeannette E.	Arts 4.	4129 Western Ave., Westmount, Que.	West. 4589
Marcus, Albert.	Arts 1.	4111 St. Urbain St., Montreal	Bel. 0119F
Marcus, Sarah.	Arts 1.	198 Bernard St., Montreal	Cres. 3993
Margolick, Moses.	Arts 1.	5682 Esplanade Ave., Montreal	Cres. 8547
Marian, Leo Edmund.	Grad. Sch.	3468 Shuter St.,Montreal. 88 Guignes Ave., Ottawa, Ont.	
Marks, Lawrence.	Arts 3.	29 Renfrew Ave., Westmount, Que.	West. 3145
Markham, Oswald S.	Arts 2.	503 Victoria Ave., Westmount, Que.	West. 8410
Marler, Howard M.	Arts 1.	15 Redpath Crescent, Montreal	Up. 2378

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Marler, John De M.	Arts 3	3420 Peel St., Montreal	Up. 1518
Marshall, A. J.	Theology	3473 University St., Montreal	Up. 1475
		132 Carr Rd., Walthamstow, E. 17	
Marshall, Clifford B.	Arts 1	29 Lake Ave., Strathmore, Que.	
Marshall, Lorne E.	Arch 2	29 Lake Ave., Strathmore, Que.	
Marshall, Doris G.	Phys. Ed. 2	27 Prospect St., Westmount, Que.	West. 4294
Marshall, William E.	Arts 4 & Med. 1	2042 Victoria St., Montreal	Lan. 2569
		Ormstown, Que.	
Marsters, Joan M.	Arts 3	458 Victoria Ave., Westmount, Que.	West. 4568M
Martin, Gertrude F.	Grad. Nurses 1	Apt. 79, 5125 Sherbrooke St. W., Montreal	Wal. 6179
		Gouin Road, Sillery, Que.	
Martin, Maud E.	Lib. Sch. 1	459 Sherbrooke St. W., Montreal	Up. 7913
		Stanstead, Que.	
Martin, Paul Emile.	Arts 2	7159 St. Denis St., Montreal	Cal. 3122
Martin, Reginald Lee.	Ap. Sci, 2	67 McTavish St., Montreal	Up. 9130
		4 Ottawa St., Granby, Que	
Martin, Rochfort K.	Arts 2	823 University St., Montreal	Plat. 0354
		1054 McGregor Ave., Victoria, B.C.	
Martin, Simeon Jameson	Medicine 5	296 Harvard Ave., Montreal	Wal. 0800
Martin, Townsend B.	Arts 1	12 Richelieu Place, Montreal	
		Westbury, N.Y.	
Mason, Ezra B.	Arts 1	348 Sherbrooke St. W., Montreal	Lan. 1567
		150 Glen St., Glen Falls, N.Y.	
Mason, Loretto (Mrs.)	Lib. Sch.	390 Cote des Neiges Rd., Montreal.	
Mason, Robert W.	Arts 1	1215 Bishop St., Montreal	Up. 3007
		Marshfield, Wis.	
Massé, Gaston W.	Ap. Sci. 1	3511 Lorne Ave., Montreal	Plat. 0568
		14 Aberdeen Ave., Sherbrooke Que.	
Massé, Jules Thomas	Arts 2	9 St. Louis Square, Montreal	
Mathieson, Jean A.	Arts. P & Lib. Sch.	124 Mira Rd., Montreal	West. 1874
Matthams, Philip.	Arts 4	3506 University St., Montreal	Up. 0290
		"Underlyme," Spital Rd., Maldon, Essex, Eng.	
Matthews, Arnold A.	Theology 1	3506 University St., Montreal	Up. 0290
		Lachute, Que.	
Maughan, George B.	Arts 1	596 Grosvenor Ave., Westmount, Que.	West. 5952
Maughan, John Walter	Com. 3	596 Grosvenor Ave., Westmount, Que.	West. 5952
Maule, John.	Arts 3	McMasterville, Que.	
Maxwell, Edythe S.	Phys. Ed. 2	232 Old Orchard Ave., Montreal	Wal. 5009W
Maxwell, H. Stirling	Arch. 5	3480 Peel St., Montreal	Up. 4703
Maxwell, Mary S.	Arts P.	716 Pine Avenue W., Montreal	Up. 3015
Mayerovitch, Harry	Arts 3	302A Prince Arthur St. W., Montreal	Plat. 3573
		Rockland, Ont.	
Mayoff, Moses.	Arts 2	4233 De Bullion St., Montreal	Bel. 4591J
Maytum, Helen E.	Med. 1	306A Prince Arthur St., Montreal	Plat. 5054
		Fowler, Kansas.	
Mazur, Maxwell.	Pharm	5268 St. Urbain St., Montreal	Cres. 2906
Meekison, Eunice I. M.	Arts 3	535 Old Orchard Ave., Montreal	Wal. 6745W
Melanson, Catherine E.	Arts 2	125 St. Catherine Road, Montreal	At. 2722
Melanson, Henry P.	Med. 4	125 St. Catherine Road, Montreal	At. 2722
Mellor, John H.	Ap. Sci. 2	Richelieu, Que.	Chambly 122–2
Mellor, Mary D.	Med. 3	Box 21, Richelieu, Que.	Chambly 122–2
Melnychuk, John A.	Arts 2	3485 McTavish St., Montreal	Up. 9130
		3850 Lake Park Ave., Chicago, Ill.	
Melville, Kenneth Ivan	Grad. Sch.	Biological Bldg., McGill University, Montreal	Up. 5920
		73 Hanover St., Kingston, Jamaica.	
Mencher, Arthur A.	Med. 5	5173 Jeanne Mance St., Montreal	Bel. 9935M
Mendelovitch, Moses.	Arts 3.	4153 St. Lawrence Blvd., Montreal	Bel. 0736
Mendels, David N.	Arts 2	536 Notre Dame St. W., Montreal	Main 0453
		3757 Wellington St., Verdun, Que.	York 7029
Mendels, Morton M.	Arts 4	536 Notre Dame St. W., Montreal	Main 0453
		3757 Wellington St., Verdun, Que.	York 7029
Mendelsohn, Lazarus.	Arts 3	6288 Alma St., Montreal	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Menzies, Gordon E.	Arts 4 & Med. 1.	468 Sherbrooke St. W., Montreal 1 Elmwood Ave., Providence, R.I.	Lan. 0646
Merrett, John Campbell	Arch. 2	90 Westmount Blvd., Westmount, Que.	West. 5367
Mercer, John L.	Arts 1	Malone, N.Y.	
Mersereau, Harris C.	Arts 1	1441 Mackay St., Montreal	Up. 1905
Messinger, Israel	Com. 3	3613 Park Ave., Montreal	Plat. 6557
Metcalfe, R. V.	Theology	3473 University St., Montreal Box 32A, Aylmer, Que.	Up. 1475
Michael, Paul P. E.	Med. 5	3569 University St., Montreal 1479 East 14th St., San Leandro, Calif.	Plat. 7556
Michener, Robert B.	Med. 5	3573 Lorne Ave., Montreal 205 N. Washington St., Wichita, Kansas.	Plat. 5732
Milburne, Kathleen E.	Arts 1	503 Oxford Ave., Montreal	Wal. 1039
Millar, Ida Louise	Arts 4	Apt. 53, 351 Edward Charles St., Montreal Drummondville, Que.	At. 1538
Millen, Stephen B.	Law 1	4214 Western Ave., Montreal	West. 0419
Miller, Arthur P.	Ap. Sci. 4	40 Ballantyne Ave. N., Montreal	Wal. 0223
Miller, Chauncey A.	Med. 4	263 Old Orchard Ave., Montreall	Wal. 4209J
Miller, David	Law 3	1462 Peel St, Montreal	Up. 6211
Miller, Evelyn	Arts 2	121 St. Joseph Blvd. W., Montreal.	Bel. 6752
Miller, Frank	Pharm	4028 De Bullion Ave., Montreal	Plat. 6630
Miller, Joseph Samuel A.	Med. 5	3487 St. Dominique St., Montreal	Lan. 2683
Miller, Samuel	Arts 3	4357 Laval Ave., Montreal	Bel. 2177J
Miller, Saul	Com. 3	Apt. 3, 2400 Hutchison St., Montreal	Cres. 5836
Milligan, Margaret E.	Arts 1	108 Edison Ave., St. Lambert, Que.	St.Lam 114
Milligan, Ruth S.	Arts 1.	Royal Victoria College, Montreal 72 Lincoln St., Bridgeton, N.J.	Plat. 0078
Milliken, Joseph H.	Med. 1.	464 Sherbrooke St. W., Montreal 3858 Howe St., Oakland, Calif.	Lan. 9632
Mills, Alan Stuart	Arts 1	517 Old Orchard Ave., Montreal	Wal. 2636
Mills, James Douglas	Com. 1	613 Old Orchard Ave., Montreal Wallaceburg, Ont.	Wal. 5856
Mills, Kenneth C.	Arts 1	517 Old Orchard Ave., Montreal	Wal. 2636
Milne, Frank E.	Arts 1	2020 McGill College Ave., Montreal. 47 Wentworth St., S. Hamilton, Ont.	Lan. C427
Minett, Jessie A.	Phys. Ed. 1	3466 University St., Montreal 28 Mount Royal Ave., Hamilton, Ont.	Up. 3369
Minnes, James F.	Arts 1	461 Sherbrooke St. W., Montreal 183 Metcalfe St., Ottawa, Ont.	
Minnes, Harold E.	Med. 2	3605 University St., Montreal 183 Metcalfe St., Ottawa, Ont.	Plat. 0354
Minnes, Robert C.	Ap. Sci. 4	3605 University St., Montreal 183 Metcalfe St., Ottawa, Ont.	Plat. 0354
Mirabile, Chas. S.	Med. 3	204 Milton St., Montreal Thompsonville, Conn.	Plat. 3001
Mirsky, I. Arthur	Med. 2	4834 St. Lawrence Boulevard, Montreal	Bel. 9439
Mitashefsky, Abe	Arts 2	3687 City Hall Ave., Montreal	Lan. 1979
Mitchell, Charles L.	Theology 1	3506 University St., Montreal Sound Island, Nfld.	Up. 0290
Mitchell, John	Ap. Sci. 4	293 Peel St., Montreal 306 Riverton Ave., Winnipeg, Man.	Up. 5947
Mitchell, Marjorie E.	Arts 2	3575 Durocher St., Montreal	Plat. 0003
Mitchell, Norma L.	Arts 1	Apt. 1, 3575 Durocher St., Montreal.	Plat. 0008
Mitchell, William	Arts 1	3448 Stanley St., Montreal	Up. 0138
Moar, John	Ap. Sci. 3	228 Bishop St., Montreal Semans, Sask.	Up. 1290
Moffat, Agnes K.	Med. 2	3492 Peel St., Montreal 32 Denison Ave., Weston, Ont.	Up. 2132
Moffatt, Donald W.	Arts 2	2026 McGill College Ave., Montreal. 1226, 12th Ave. W., Vancouver, B.C.	
Moffatt, Ethel Gertrude	Arts 2	Royal Victoria College, Montreal 1226, 12th Ave. W., Vancouver, B.C.	Plat. 0078
Mollot, Edward E.	Arts 2	4625 Wellington St., Verdun, Que.	
Monaker, Jacob	Med. 5	5959 Sherbrooke St. W., Montreal.	Wal. 3754
Monk, Raymond L.	Ap. Sci. 1	4347 Westmount Ave., Montreal	West. 4717
Monsanto, Cyril O.	Arts 2	Strathcona Hall, Montreal Castries, St. Lucia, B.W.I.	Lan. 1567

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Montgomery, Harriet R.	Arts 3	1238 Mackay St., Montreal New Richmond, Que.	Up. 0990
Montgomery, Hugh Richardson	Ap. Sci. 3	3429 Peel St., Montreal Phillipsburg, Que.	Up. 5947
Montgomery, Robert A.	Arch. 2	3429 Peel St., Montreal Philipsburg, Que.	Up. 5947
Montgomery, Wallace O.	Com. 2	346 Decelles Ave., Cote des Neiges, Montreal East Angus, Que.	
Montgomery, Wm. Boydell.	Ap. Sci. 2	3429 Peel St., Montreal Penticton, B.C.	Up. 5947
Montour, Enos T.	Grad. Sch.	3506 University St., Montreal Box 492, Hagersville, Ont.	Up. 0290
Moodie, Russell L.	Arts 1	4404 St. Catherine St. W., Westmount, Que.	West. 0078
Moore, Arthur B. B.	Theology 1	3506 University St., Montreal R.R. No. 3, Mouth of Keswick, N.B.	Up. 0290
Moore, Charles E.	Ap. Sci. 3	304 Peel St., Montreal 1096, 4th Ave. "A" West, Owen Sound, Ont.	Up. 6788
Moore, Elsie M.	Arts P	418 Claremont Ave., Westmount 1526 Nanton Ave., Vancouver, B.C.	
Moore, Ruth Evelyn.	Arts 3	359 Querbes Ave., Montreal	At. 2345
Moore, Sanderson E.	Arts 1	418 Claremont Ave., Westmount, Que.	
Moore, William Herbert.	Grad. Sch.	466 Grosvenor Ave., Westmount, Que.	West. 1431J
Moran, John E.	Ap. Sci. 1	799 University St., Montreal 315 E. Brock St., Fort William, Ont.	Plat. 3151
Moran, Maude G. T.	Arts 2	4840 Western Ave., Westmount, Que.	West. 3883
Moran, Vera May T.	Arts 4	4840 Western Ave., Westmount, Que.	West. 3883
Morehouse, Oscar E.	Med. 1	Strathcona Hall, Montreal Upper Keswick, N.B.	Lan. 1567
Morgan, Ian C.	Com. 1	3462 Peel St., Montreal	Up. 3745
Morgan, George L.	Theology 2	3506 University St., Montreal Port de Grave, Nfld.	Up. 0290
Morin, Suzanne	Arts 1	37 Spring Grove, Outremont, Que.	
Morphy, Lawrence M.	Arts 2	29, 34th Ave., Lachine, Que	Lach. 1317
Morrell, Donald L.	Com. 4	3647 University St., Montreal 572 McLaren St., Ottawa, Ont.	Plat. 5070
Morrison, Claude W.	Ap. Sci. 2	108 Portland Ave., Town of Mount Royal, Que.	At. 0111
Morrison, Jessie M.	Arts 1	Royal Victoria College Annex, Montreal Sutton, Que.	Plat. 0078
Morrison, Margaret K.	Arts 4	Apt. 3, 689 University St., Montreal Lachute, Que.	Up. 6070J
Morrison, Thomas J.	Ap. Sci. 2	3454 Peel St., Montreal 213 Brown Ave., Quebec, Que.	Up. 6788
Morrow, Carl E. L.	Med. 5	3555 University St., Montreal Metcalfe, Ont.	Plat. 0753
Morton, Agnes D.	Arts 3	234 Metcalfe Ave., Westmount, Que.	West. 8286
Morton, Edward A.	Arts 2	1455 Drummond St., Montreal 35 Bank St., St. Albans, Vt.	Up. 1859
Morton, John W.	Dent. 4	1172 Cote St. Antoine Rd., Montreal.	Wal. 1490
Morton, Lillian I.	Grad. Nurses	729 Dorchester St. W., Montreal Proton Station R.R. 2, Ont.	Up. 8224
Morton, Nelson Whitman	Arts 2	Strathcona Hall, Montreal 230 Lisgar St., Ottawa, Ont.	Lan. 1567
Moscovich, Jacob	Med. 5	315 Pine Ave. W., Montreal 317, 7th Ave. S., Lethbridge, Alta.	Up. 2991
Moshinsky, Samuel	Med. 4	2026 McGill College Ave., Montreal 559 Belmont Ave., Brooklyn, N.Y.	Lan. 8610
Moskovitch, Samuel, Jr.	Law 3	4324 Sherbrooke St. W., Apt. 45, Westmount, Que.	West. 6471
Mosley, William	Med. 5	468 Sherbrooke St. W., Montreal 102 Dorothy St., Welland, Ont.	Lan. 0646
Mott, E. P.	Lib. Sch.	3568 University St., Montreal Dalhousie, N.B.	Up. 5790J

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Mott, Frederick D	Med. 1	2021 Peel St., Montreal	Lan. 8877
		75 Midland Ave., Montclair, N.J.	
Mount, Hilda E	Arts 3	134 St. Charles St., Longueuil, Que.	Long. 232
Mount, John P	Com. 1	308 Sherbrooke St. E., Montreal	East 1895W
Mountain, Nelson W	Ap. Sci. 1	173 Marcil Ave., Montreal	Wal. 1948W
		Charny, Que.	
Mountford, Kathleen M	Arts 3	26 Crescent St., St. Lambert, Que.	
Mowat, Glen A	Med. 5	3 Winning St., Montreal	Lan. 8843
		Campbellton, N.B.	
Moxon, Henry W	Ap. Sci. 2	233 Oxford Ave., Montreal	Wal. 4236J
		7424 Prince Edward St., Vancouver, B.C.	
Mules, Ernest	Grad. School	1539 Hutchison St., Montreal	At. 2979J
Muller, Peter P	Ap. Sci. 3	476 Grosvenor Ave., Westmount, Que.	West. 0844
Mulvena, Henry D	Law 1	9 Forden Ave., Westmount, Que.	West. 1860
Munn, Daniel J	Arts 4	3506 University St., Montreal	Up. 0290
		4273 Dorchester St. W., Montreal.	
Munro, Charles A	Med. 2	224 Prince Arthur St. W., Montreal.	Plat. 2589
		Dixonville, Penn.	
Munroe, David C	Arts 4	3647 University St., Montreal	Plat. 5070
		235 Strathearn Ave., Montreal West, Que.	Wal. 4792
Munroe, William G. C.	Arts 1	235 Strathearn Ave., Montreal West, Que.	Wal. 4792
Murray, Mae F.	Grad. Sch.	370 Elm Ave., Westmount, Que.	West. 6801
Murray, Prescott W.	Arts 4	3573 Lorne Ave., Montreal	Plat. 0781
		Harvey Station, N.B.	
Murray, George	Theology	3485 McTavish St., Montreal	Up. 9130
		Lewis, Scotland	
Murray, Thomas R.	Dent. 1	370 Elm Ave., Westmount, Que.	West. 6801
Murray, Charles C.	Theology 2	3506 University St., Montreal	Up. 0290
		Stoney Creek, Ont.	
Murray, William A.	Arts 1	3653 University St., Montreal	Plat. 2683
Murray, William MacG.	Arts 1	670 Sherbrooke St. W., Montreal	Up. 1902
		Georgeville, Que	
Musselman, Barney	Arts 4	27 Mary Ann St. W., Montreal	Bel. 1195J
Myers, Marion Sarah	Grad. Nurses	Montreal General Hospital, Montreal	Lan. 4101
		19 Oak Terrace, Dorchester, Mass.	
Nairn, A. Gordon	Law 1	805 Shuter St., Montreal	Plat. 1978
Nason, Stanley S.	Grad. Sch.	68 Hillcrest Ave., Montreal West, Que.	
*Nation, Frederick S.	Ap. Sci. 3	3637 University St., Montreal	Plat. 2681
		179 Albert St., Belleville, Ont.	
Naylor, Lois A. E.	Arts 2	1908 St. Catherine St. E., Montreal.	Clair 7299W
Neamtan, Solomon	Com. 1	47 St. Joseph Blvd., W. Montreal	Bel. 4582M
Negru, John H.	Arts 3	1458 Guy St., Montreal	Up. 1183M
Neiderhoffer, Sydney L.	Med. 4	670 Durocher Ave., Outremont, Que.	At. 5079
Nelles, J. Gordon	Com. 4	1498 Mackay St., Montreal	Up. 0003
Nelson, Dorothy A.	Phys. Ed. 2	657 Lansdowne Ave., Montreal	West. 0878
Nelson, Edna G.	Phys. Ed. 2	3466 University St., Montreal	Up. 3369
		Westboro, Ont.	
Nelson, Eda Maude	Grad. Sch.	34 Lincoln Ave., Montreal	
		Truro, N.S.	
Nelson, Robert James	Med. 1	3437 Peel St., Montreal	Up. 2031W
		Box 462, Campbellton, N.B.	
Neville, H. Russell	Ap. Sci. 2	3417 Shuter St., Montreal	Plat. 0041
Newell, Thomas A.	Arts 1	484 Wilson Ave., Montreal	Wal. 6637W
Newton, Frederick L.	Arts 2	8, 11th Ave., Lachine, Que.	Lach. 526
Nicholls, George Van Vliet	Arts 3	29 Cote des Neiges Rd., Montreal.	
Nicholls, John Van Vliet	Arts 2	29 Cote des Neiges Rd., Apt. 21, Montreal	
Nickerson, Samuel H.	Arts 3	4412 Henri Julien Avenue, Montreal.	Bel. 9204M
Nickle, Alfred N.	Arts 4 & Med. 1.	294 Marlowe Ave., Montreal	Wal. 1570
Nieghorn, Alice G.	Arts 2	4878 Westmount Ave., Westmount, Que.	West. 0544
Nightingale, Matt S.	Ap. Sci. 4	42 Ballantyne Ave. N., Montreal West, Que.	Wal. 3584W

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Nimmo, Alexander	Theology	3485 McTavish St., Montreal Randalstown, Ireland	Up. 9130
Nitschke, Paul H.	Med. 5	3489 Shuter St., Montreal 213 East 9th St., The Dalles, Oregon	Plat. 7357
Noble, Otto A.	Ap. Sci. 4	3563 Durocher St., Montreal 137 Cameron St., Moncton, N.B.	Plat. 5430
Nolan, Clinton W.	Ap. Sci. 2	78 Durocher St., Montreal 777 Potomac Ave., Buffalo, N.Y.	
Nolan, John F.	Med. 1	464 Sherbrooke St. W., Montreal 505 Brock St., Bridgeport, Conn.	Lan. 9632
Normington, James B.	Arts 2	39 Windsor Ave., Westmount, Que.	West. 6615
Norris, Kenneth E.	Arts 2	3661 Jeanne Mance St., Montreal Perth, Ont.	Plat. 5437
Noseworthy, Nathan	Arts 2	Apt. 1, 152 Durocher St., Montreal Harbour Grace, Newfoundland	Plat. 2519
Noyes, K. Evelyn M.	Arts 2	332 Grosvenor Ave., Westmount, Que.	West. 5300
Nurse, T. E. R.	Theology	3473 University St., Montreal	Up. 1475
Nutick, Oscar	Med. 2	4876 Sherbrooke St. W., Montreal	West. 6357
Oatman, Homer C.	Med. 2	317 Pine Ave., Montreal 2437, 2nd St., San Diego, California	Up. 8731
Oberfeld, Harry	Med. 5	4173 Rivard St., Montreal	Bel. 0896
O'Brien, Margaret Theresa	Grad. Sch.	3492 Peel St., Montreal 33 Chenango St., Montrose, Penn.	
O'Connell, Francis J.	Ap. Sci. 2	187 St. Charles St., Montreal	York 4215W
O'Connor, Maurice N.	Med. 3	3539 Shuter St., Montreal 173 Farnum St. Wellsville, N.Y.	Plat. 6742
O'Dowd, Cyril G.	Arts 1	327 De l'Epée Ave., Outremont, Que.	At. 2335
Ogilvie, Douglas R.	Arts 1	102 Cote des Neiges Rd., Montreal	Up. 4242
Ogilvie, Elsie C.	Grad. Nurses	3460 St. Famille St., Montreal Box 604, Lakefield, Ont.	Plat. 3619
Ogilvy, James A.	Ap. Sci. 2	590 Sherbrooke St. W., Montreal 64 Wellington St. S., Hamilton, Ont.	Up. 6554
Ogulnik, Victor F.	Arts 2	5 Belfrage Rd., Westmount	West. 2429
O'Halloran, Eleanor K.	Arts 2	Royal Victoria College, Montreal Richmond, Que.	Plat. 0078
Oliver, Abraham	Arts 2	3816 De Bullion, Montreal	Plat. 3270
Oliver, Austen W.	Arts 4 & Dent. 1	1483 Closse St., Montreal 415, 10th St., Saskatoon, Sask.	Up. 2133
Olmstead, Shirley H.	Med. 2	468 Sherbrooke St. W., Montreal Lancaster, N.H.	Lan. 0646
Olmstead, Alexander I.	Med. 4	775 Sherbrooke St. W., Montreal 215 James St., South, Hamilton, Ont.	Up. 2143
O'Meara, Ambrose J.	Arts 3	Apt. E., 71, Chateau Apts., Montreal	Up. 7439
Onions, Wilfred R.	Arch. 1	Y.M.C.A., Drummond St., Montreal Somerset, Bermuda, B.W.I.	Up. 6500
Oppé, John S.	Arts 2	3491 Peel St., Montreal	Up. 5959
Oram, Franklin G. C.	Ap. Sci. 1	342 Oxford Ave., Montreal	Wal. 1311
O'Regan, Charles H.	Med. 5	779 University St., Montreal 73 Elliot Row, St. John, N.B.	Plat. 7556
Orr, C. Parker	Med. 2	468 Sherbrooke St. W., Montreal 404 East Bolton, Savannah, Ga.	Lan. 0646
Orr, Margaret M. E.	Grad. Nurses	1251 St. Mark St., Apt. 19, Montreal Clarkson, Ont.	Up. 9420M
Osborne, Dorothy E	Arts 2	107 Chomedy St., Montreal	
Osborne, Isa Cornelia	Lib. Sch.	Apt. 8, 1487 Chomedy St., Montreal	Up. 1665W
Osborne, Joan S.	Lib. Sch.	804B Dorchester St. W., Montreal 288 Waverley St., Winnipeg, Man.	Up. 1549W
Osborne, John R.	Med. 3	468 Sherbrooke St. W., Montreal Chester, N.Y.	Lan. 0646
Ostle, Arthur J.	Theology	3485 McTavish St., Montreal Clubmoor, England	Up. 9130
Ostrander, Ruth E.	Phys. Ed. 2	24 Royal Ave., Montreal	Wal. 2137
Ostroff, Louis J.	Med. 5	3852 City Hall Ave., Montreal	Lan. 8914
Oulton, William F.	Arts 1	128 Merton Ave., St. Lambert, Que.	St.La. 525F
Owens, Charlotte M.	Lib. Sch.	210 Milton Street, Montreal	
Oxley, A. Kiel H.	Grad. Sch.	124 Victoria Ave., Longueuil, Que.	
Oxorn, Milan	Law 3	5176 Casgrain Ave., Montreal	Bel. 6182W
Pacaud, Charles E.	Arts 3	674 Roslyn Ave., Westmount, Que.	West. 3022

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Padber, Max N	Com. 1	3441 St. Dominique St., Montreal	Lan. 5739
Palliser, Elinor M	Grad. Nurses 1	970 Tupper St., Montreal	Up. 0065
Palmer, Elma F	Arts 1	61 Pine Ave., St. Lambert, Que	St.La. 422
Palmer, Harold Edward	Arts 4	61 Pine Ave., St. Lambert, Que	St.La. 422
Palmer, Russell A	Med. 2	851 University St., Montreal	Plat. 5070
		1054 Balfour Ave., Vancouver, B.C.	
Palmer, William H	Ap. Sci. 4	3573 Park Ave., Montreal	Plat. 6766
		Hearts Content, Nfld.	
Pangman, Arthur H	Ap. Sci. 4	1109 Queen Mary Road, Montreal	West. 3916
Papaefthymion, Nick	Arts P	22 St. Famille St., Montreal	
Parfitt, Horace U	Theology 1	3506 University St., Montreal	Up. 0290
		121 Vale Terrace, Bridegar, Mon., South Wales.	
Parish, Charles E	Ap. Sci. 1	3434 McTavish St., Montreal	Up. 8633
		30 Cliff Ave., Hamilton, Ont.	
Parker, Alice L	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		Coaticook, Que.	
Parker, Marjorie H	Arts 1	512 Bloomfield Ave., Outremont, Que.	At. 0511
Parker, William S	Med. 1	3580 Lorne Ave., Montreal	Plat. 4996
		76 East Housatonic St., Pittsfield, Mass.	
Parker, Cecil Harcourt	Med. 5	49 Mansfield St., Montreal	Lan. 6497
		257, West 110th St., New York, N.Y.	
Parkovnick, Samuel	Arts 2	93 Dante St., Montreal	
Parmley, James R	Med. 3	3506 University St., Montreal	Up. 0290
		Penticton, B.C.	
Parris, Ivan E. R	Med. 5	806 Shuter St., Montreal	Plat. 4049
		Brown's Town, Jamaica, B.W.I.	
Parsons, Harold E	Theology 2	3506 University St., Montreal	Up. 0290
		3546 Lorne Ave., Montreal.	
Pascal, Fred	Ap. Sci. 1	470 Wiseman Ave., Montreal	At. 7107W
Passino, Leon C	Arts 2	348 Sherbrooke St., Montreal	Lan. 1567
		75 Constable St., Malone, N.Y.	
Paul, Hugh C	Med. 2	320 Prince Arthur St., Montreal	Plat. 0761
		Island Falls, Me.	
Paul, Millicent H	Arts 1	853 Davaar Ave., Outremont, Que.	At. 2346
Paterson, Daphne H	Phys. Ed. 1	459 Sherbrooke St. W., Montreal	Lan. 0564
		92 Leinster St., St. John, N.B.	
Paterson, Janet A	Com. 4	1175 Essex Ave., Montreal	Up. 6007
Paterson, John Allan	Arts 1	18 Winchester Ave., Westmount, Que.	West. 3899
Paterson, John Ross	Arts 3	4311 Montrose Ave., Westmount, Que.	West. 9541
Paterson, Zoe Downing	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		St. John, N.B.	
Patrick, David Y	Arts 4	9 Springfield Ave., Westmount, Que.	West. 1386
Patterson, Alfred S	Ap. Sci. 4	338 Sherbrooke St. W., Montreal	Lan. 7757
		58 Ontario Ave., Hamilton, Ont.	
Patterson, K. Sylvia	Arts 1	2555A Hutchison St., Montreal	Cres. 5503
		Gananoque, Ont.	
Patton, Inez G	Arts 2	Apt. 4, 279 Sherbrooke St. W., Montreal	Plat. 0390
		Ormstown, Que.	
Payne, Doris G	Arts 3	279 Sherbrooke St. W., Montreal	Plat. 0390
		Ormstown, Que.	
Payne, Owen J	Pharm. 3	286 Osborne Ave., Verdun, Que	Yk. 4230M
Payton, James A	Arts 4	Apt. 6, 46 Overdale Ave., Montreal.	Up. 6054
Payton John R. T	Arts 1	25 Burton Ave., Westmount, Que.	West. 2474
Peacock, Henry F	Arts 2	1789 Notre Dame St. E., Montreal.	
Peake, Edith E	Arts 3	Apt. 5, 1060 Fairmount Ave., Outremont, Que.	Cres. 9686
Pearce, John K	Arts 2	410 St. James St., Montreal	Main 2103
Pearson, Gertrude E	Arts 3	918 Tupper St., Montreal	Up. 0626W
Pearson, Isobel M	Arts 1	9 Capital Apts., 2028 Victoria St., Montreal	
		Laurencetown, Anna Co., N.S.	
Pearson, Samuel S	Pharm.	1557 St. Mark St., Apt. 1, Montreal.	Up. 4656W
Peden, Freda E	Arts 1	111 Ballantyne Ave. N., Montreal West, Que.	Wal. 0376

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Peden, Gwen Winnifred	Arts 2	161 Strathearn Ave., Montreal West, Que.	Wal. 0379
Peers, James Hallett	Med. 2	468 Sherbrooke St. W., Montreal 246 Massachusetts Ave., Providence, R.I.	Lan. 0646
Peers, Robert Stewart	Med. 3	Apt.11, 64 Victoria St., Montreal Colfax, Placer Co., California.	
Pelletier, Fraser H	Arts 1	359 Oxford Ave., Montreal	Wal. 1355
Peltier, Ruth M	Arts 3	330 Brock Ave. N., Montreal West, Que.	Wal. 1223J
Pemberton, John S. B	Grad. Sch	1544 Mackay St., Montreal	
*Pepin, Francois	Ap. Sci. 1	1710 St. Christopher St., Montreal	East 2489
Percival, Ralph	Med. 3	3621 Park Ave., Montreal 12 Freshwater Rd., St. Johns, Nfld.	Plat. 5552
Perelmuter, Martin M	Arts 2	232 Querbes Ave., Outremont, Que.	At. 5184
Perley, Ernest Clint	Ap. Sci. 4	165 Hutchison St., Montreal Wolseley, Sask.	Plat. 1618
Perrault, Yvette	Arts P	495 Cote des Neiges Rd., Montreal	West. 6317
Persk, Joseph	Dent. 2	4330 Sherbrooke St. W., Westmount, Que. Whitehall, N.Y.	
Petch, Charles	Com. 4	3647 University St., Montreal 224 First Ave., Ottawa, Ont.	Plat. 5070
Peters, Charles H	Arts 4	1462 Bishop St., Montreal	Up. 2722
Peters, Margaret S	Phys. Ed. 2	3466 University St., Montreal Rothesay, N.B.	Up. 3369
Peters, Mary K	Phys. Ed. 2	3466 University St., Montreal Rothesay, N.B.	Up. 3369
Peters, N. Eileen	Arts 3	1462 Bishop St., Montreal	Up. 2722
Petersen, Ove Alexander	Arts 2	319 Egan Ave., Verdun, Que	York 0341W
Petrie, James G	Med. 1	3437 Peel St., Montreal Newcastle, N.B.	Up. 2031W
Petry, William A	Med. 1	167 Hutchison St., Montreal 538 Washington St., Hudson, N.Y.	Plat. 2396
Phelps, Maxwell O	Med. 4	317 Pine Ave. W., Montreal Farmington, Conn.	Up. 8731
Phelps, Paul S	Med. 3	317 Pine Ave. W., Montreal Farmington, Conn.	Up. 8731
Phelps, Victor B	Dent. 3	102 Royal Ave., Montreal	Wal. 4374
Phillips, Edward R	Med. 1	3580 Durocher St., Montreal 2245 So. Josephine St., Denver, Col.	Plat. 3265
Picard, Robert I. C	Arts 1	23 Chesterfield Ave., Westmount, Que.	West. 1770
Pickering, Gala C	Arts 1	Royal Victoria College, Montreal 130 Sparks St., Ottawa, Ont.	Plat. 0078
Pickleman, Gerald J.	Arts 3	282 Girouard Ave., Montreal	Wal. 5930
Pidgeon, Nettie A	Med. 5	243 Melville Ave., Westmount, Que.	West. 6698M
Pimenoff, Clement J	Ap. Sci. 1		
Pinkerton, Edwin K	Arts 4 & Med. 1	3578 University St., Montreal 140 Third Ave., N., Yorkton, Sask.	Up. 9109
Piper, William John	Com. 2	466 Sherbrooke St. W., Montreal 227 Scarboro Ave., Calgary, Alta.	Lan. 5778
Pitcairn, Keith S	Arts 4	Apt. 7, Commodore Apts., Dorchester St. W., Montreal St. Andrews East, Que.	Up. 7865
Pitcairn, William A	Dent. 2	792 Dorchester St. W., Montreal	Up. 7865
Pitcher, Barbara A	Arts P	990 Queen Mary Rd., Montreal	West. 2181
Playfair, Geoffrey, Alan	Com. 2	348 Sherbrooke St. W., Montreal Qualicum Beach, Vancouver Island, B.C.	Lan. 1567
Poland, Frederick W	Arts 2	139 Lazard Rd., Mt. Royal, Que.	At. 4584W
Poland, George H	Arts 1	139 Lazard Rd., Mt. Royal, Que.	At. 4584W
Policoff, Abraham W	Arts 4	187 Dorchester St. W., Montreal	Lan. 0908
Pollard, Samuel L	Arts 3	3473 University St., Montreal	Up. 1475
Pontano, Emil	Pharm	631 Querbes Ave., Montreal	At. 5141F
Poole, Gordon D	Arts 1	30 Ballantyne Ave., S., Montreal West, Que.	Wal. 0044F
Pooler, Howard E	Med. 3	71 Hutchison St., Montreal Tucson, Arizona	Plat. 1372

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Pope, Douglas E.	Arts 1.	64 Victoria St., Montreal	Lan. 6789
		Richmond, Que.	
Pope, Joseph M.	Ap. Sci. 4.	1166 Lajoie Ave., Outremont, Que.	At. 3804
Popliger, Anne	Arts 3.	734 Shuter St., Montreal	Plat. 0751
Poppo, Martin J.	Med. 3.	804 Versailles St., Montreal	Up. 4041
Porteous, George	Grad. Sch.	3485 McTavish St., Montreal	Up. 9130
		Douglas, Scotland	
Porteous, John F.	Arts 1.	6825 Lasalle Blvd., Verdun, Que.	York 0486
Porter, Minerva G.	Phys. Ed. 2.	3466 University St., Montreal	Up. 3369
		989 Dorchester Ave., Winnipeg, Man.	
Posner, Dorothy A.	Arts 3.	6387 Papineau Ave., Montreal	Cal. 0233
Posner, Hertha F.	Arts 3.	6387 Papineau Ave., Montreal	Cal. 0233
Poupore, Michael J.	Com. 1.	95 Hutchison St., Montreal	Plat. 5235
		34 Copeland St., North Bay, Ont.	
Power, Margaret M.	Arts 3.	1415 McGill College Ave., Montreal	
Powers, Arthur	Med. 2.	2054 City Councillors St., Montreal.	Plat. 5734
		Rockland, Ont.	
Powers, Maurice	Arts 2.	2054 City Councillors St., Montreal.	Plat. 5734
		Rockland, Ont.	
Poyas, Morton L.	Med 4.	3479 Shuter St., Montreal	Plat. 5410
		172 Bay 34th St., Brooklyn, N.Y.	
Pratt, John J.	Arts 3.	163E Ropery St., Montreal	York 5373F
Pratt, Robert J.	Arch. 1.	660 Dunlop Ave., Outremont, Que.	
Preston, Marie Louise C.	Grad. Nurses 1.	3560 Peel St., Montreal	Up. 2620
		48 Shrewsbury St., Stratford, Ont.	
Prew, Muriel	Arts 4.	47 Church Avenue, Verdun, Que.	York 4404
Price, Harold B.	Arts 1.	40 Lorne Ave., Montreal	Plat. 5056
Price, Jacques I.	Arts 2.	460 Grosvenor Ave., Westmount, Que.	
		Bank House, Frenchwood St., Preston, Lancs, Eng.	
Prince, William M.	Med. 1.	82 Pine Ave., W., Montreal	Plat. 0895
		New Boston, N.H.	
Pringle, Margaret E.	Grad. Nurses 1.	3550 University St., Montreal	Up. 2620
		Stanley, N.B.	
Prissick, Frances H.	Arts 4.	27 Bellevue Ave., Westmount, Que.	West. 6694
Proctor, Donald A.	Med. 1.	223 Prince Arthur St. W., Montreal.	Plat. 6869
		61 Winter St., Keene, N.H.	
Puddicombe, Donald H.	Com. 4.	3434 McTavish St., Montreal	Up. 8633
		410 Queen St., Ottawa, Ont.	
Pugh, Frederick C.	Com. 4.	3609 University St., Montreal	Plat. 3464
		291 Christina St., N., Sarnia, Ont.	
Pulrang, Floyd S.	Med. 3.	3608 Oxenden Ave., Montreal	Plat. 4495
		209 Park Hill Ave., Yonkers, N.Y.	
Purcell, Gideon J.	Arts 1.	3485 McTavish St., Montreal	Up. 9130
		Kemptville, Ont.	
Pursley, Robert	Arts 3.	3506 University St., Montreal	Up. 0290
		23 Crystal St., Belfast, Ireland	
Putney, Bernard	Med. 4.	3479 Shuter St., Montreal	Plat. 5410
		St. Johns Hospital, Ogdensburg, N.Y.	
Quackenbush, Roderick S.	Med. 3.	328 Sherbrooke St. W., Montreal	Lan. 7141
		36 Hampton Ave., Ottawa, Ont.	
Quigley, Marguerite G.	Arts 3.	63 Clandeboye Ave., Westmount, Que.	West. 4372
Quinlan, Harry F.	Med. 5.	4677 St. Urbain St., Montreal	Bel. 2584F
		Trout Creek, Ont.	
Quinn, Edward G.	Com. 1.	539 Davaar Ave., Outremont, Que.	At. 3154
Quinn, Louis James	Arts 1.	Apt. 46, 1461 Mountain St., Montreal	Up. 9340
Quinn, Odoric C. J.	Ap. Sci. 1.	6801 Delanaudière St., Montreal	
		Gomin Road, Que.	
Quintin, Thomas J.	Med. 3.	3473 University St., Montreal	Up. 1475
		Harbour Grace, Nfld.	
Rabinovitch, Anne M.	Arts 3.	484 Bloomfield Ave., Outremont, Que.	At. 6644
Rabinovitch, Issie	Pharm.	3753 Laval Ave., Montreal	East. 4065
Rabinovitch, Lottie C.	Arts 1.	4 Elmwood Ave., Montreal	At. 6756
Rabinovitch, Sam	Arts 3.	3753 Laval Ave., Montreal	East 4065
Radino, Joseph A.	Pharm.	2652 Frontenac St., Montreal	Amh. 6637
Radler, Ruth	Arts 3.	5823 Mance St., Montreal	Cres. 3613

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Raether, Morris F.	Ap. Sci. 1	22 Cornell Ave., Montreal East, Que.	
Rahmanop, Walter B.	Med. 2	461 Sherbrooke St. W., Montreal Berlin, N.H.	Up. 4418
Ramsey, George H.	Med. 5	348 Sherbrooke St. W., Montreal 700½ Gerrard St. E., Toronto, Ont.	Lan. 1567
Randazzo, Anton P.	Med. 1	271 Prince Arthur St., Montreal 110 Park Place, Passaic, N.J.	Plat. 3865
Rankin, James L.	Arts 1	192 Logan St., St. Lambert, Que.	St. Lam. 509J
Rankin, John L.	Arts 1	646 Grosvenor Ave., Westmount, Que.	West. 8869
Rankin, William Donald	Med. 4	3626 Lorne Crescent, Montreal Woodstock, N.B.	Plat. 3519
Ransom, Howard Charles L.	Arts P.	18 Melbourne Ave., Westmount, Que.	West. 0627
Rapp, Isidore	Law 3	335 De l'Epée Ave., Outremont, Que.	At. 4229
Raymond, Paul	Law 1	3444 St. Hubert St., Montreal Lachute, Argenteuil Co., Que.	Main 1613
Read, Frances E. M.	Arts 3	451 Sherbrooke St. W., Montreal Cascumpec, P.E.I.	Up. 9125
Rearden, John B.	Med. 5	3524 University St., Montreal 24 Arch St., Springfield, Mass.	Up. 9173
Redpath, James B.	Ap. Sci. 2	845 University St., Montreal Pincher Creek, Alta.	Plat. 2681
Reed, Helen J.	Arts 3	Royal Victoria College, Montreal Penticton, B.C.	Plat. 0078
Reed, John G.	Arts 4	631 Cote St. Antoine Rd., Montreal.	West. 7268
Rees, A. P. C.	Theology	3473 University St., Montreal The Rectory, Dwyngwrill, Marionethshire	Up. 1475
Reeve, Herbert A.	Ap. Sci. 3	5255, 9th Ave., Rosemount, Que.	Cher. 4779
Regenstaeif, Arthur	Pharm 1	3847 Drolet St., Montreal	
Reid, Ewart P.	Arts 1	600 Victoria Ave., Westmount, Que.	West. 2060
Reid, Grace	Arts 3	4933 Western Ave., Montreal	West. 9179
Reid, Howard C.	Arts 3	600 Victoria Ave., Westmount, Que.	West. 2060
Reid, Jean Donaldson	Arts 4	Royal Victoria College, Montreal 31 Wolfe St., Sherbrooke, Que.	Plat. 0078
Reid, Robert G.	Med. 5	3647 University St., Montreal	Plat. 5073
Reider, Reuben	Arts 4	3763 Arcade St., Montreal	Plat. 3643
Reilly, John Andrew	Arts 1	120 Easton Ave., Montreal West, Que.	Wal. 0415M
Render, Norman D.	Med. 5	5686 Waverley Ave., Montreal Schuylerville, N.Y.	Cres. 3365
Rennie, Gordon H.	Ap. Sci. 2	3581 University St., Montreal Agincourt, Ont.	Plat. 6979
Resin, Reuben	Arts 4	4113 St. Urbain St., Montreal	Bel. 8825
Resnik, Edward	Med. 3	3479 Shuter St., Montreal 1349 Chapel St., New Haven, Conn.	Plat. 5410
Rettie, Margaret O.	Arts 2	8 Willow Ave., Westmount, Que.	West. 1999
Rey, Edgard A. E.	Arts 1	348 Sherbrooke St. W., Montreal 4 Redcliffe St., St. Johns, Antigua, B.W.I	Lan. 1567
Rhodes, Donald	Ap. Sci. 4	469 Melrose Ave., Montreal	Wal. 2100J
Rhodes, Edgar N.	Com. 2	3637 University St., Montreal Halifax, N.S.	Plat. 2681
Rheault, Georges E.	Dent. 3	1338 Van Horne Ave., Montreal Disraeli, Que.	At. 3312J
Richardson, John M.	Ap. Sci. 4	670 Sherbrooke St. W., Montreal c/o Imperial Bank, St. Thomas, Ont.	Up. 0054
Richardson, Seton L.	Med. 1	263 Prince Arthur St., Montreal O'Donnell, Ont.	Plat. 2888
Richman, Harry	Med. 4	348 Sherbrooke St. W., Montreal 51 East 107th St., New York, N.Y.	Lan. 1567
Richstone, George G.	Arts 3	4216 St. Lawrence Blvd., Montreal	Bel. 1820
Rilance, Arnold B.	Med. 2	5391 Esplanade Ave., Montreal 2170, 49th Ave., W., Vancouver, B.C.	Bel. 1435
Rill, Cyril B.	Com. 2	704 Bloomfield Ave., Outremont, Que. 39 Purcell Ave., Winnipeg, Man.	At. 0229J
Ripstein, Reitta	Arts 2	148 Cote St. Antoine Rd., Westmount, Que. 1611 Davie St., Vancouver, B.C.	West. 7077W
Ritchie, Arthur Stanley C.	Arts 1	3506 University St., Montreal Wine St., Sligo, Ireland	Up. 0290

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Ritchie, Henry L.	Com. 2	466 Sherbrooke St. W., Montreal 275 First Ave., Ottawa, Ont.	Lan. 5778
Robbins, Edwin W.	Com. 2	574 Durocher Ave., Outremont, Que.	At. 5100
Robert, Percy A.	Soc. Workers 2 & Grad. Sch.	University Settlement, Montreal 119 Daly Ave., Ottawa, Ont.	Lan. 8686
Roberts, Annie (Mrs.)	Lib. Sch.	5346 Park Ave., Montreal	
Roberts, Gwen R. P.	Arts 3	Royal Victoria College Annex, Montreal 35 Cherry Drive, Toronto, Ont.	Up. 2534
Roberts, Percy H.	Med. 2	551 Querbes Ave., Outremont, Que.	At. 4947
Roberts, Robert C.	Arts 1	52 Mercille Ave., St. Lambert, Que.	St. Lam. 795
Roberts, William F.	Med. 1	3561 Lorne Ave., Montreal 4 Douglas Ave., St. John, N.B.	Plat. 0938
Roberts, William G.	Com. 1	1441 Crescent St., Montreal Granby, Que.	Up. 0715
Robertson, Angus G.	Com. 2	44 Academy Rd., Westmount, Que.	West. 0706
Robertson, Basil Duncan	Med. 5	3524 University St., Montreal 155 Queen St., St. John, N.B.	Up. 9173
Robertson, Donald V.	Com. 1	480 Roslyn Ave., Westmount, Que.	West. 1985
Robertson, Elizabeth M.	Grad. Nurses	1470 Fort St., Apt. 4, Montreal	Up. 3810
Robertson, Jessie Maude	Lib. Sch.	261 Hampton Ave., Montreal 6290 Cypress St., Vancouver, B.C.	Wal. 1510
Robertson, Margaret J.	Arts 2	461 Roslyn Ave., Westmount, Que.	West. 2145
Robertson, Russell W.	Dent. 3	770 University St., Montreal Almonte, Ont.	
Robertson, Thomas D.	Arts 2	4144 Dorchester St. W., Westmount Que.	West. 5919W
Robin, Percival A.	Med. 1	315 Pine Ave. W., Montreal 1011 Washington St., Wilmington, Del.	Up. 2991
Robinett, James B.	Med. 1	317 Pine Ave. W., Montreal 1505 Isabella St., Houston, Texas	Up. 8731
Robinson, Anita Mansfield	Arts 1	1118 St. Viateur St., Montreal	At. 5599
Robinson, Charles W.	Arts 1	110 Wolseley Ave., Montreal West, Que.	Wal. 3376
*Robinson, Stewart A.	Dent. 4	629 Belgium Ave., Westmount, Que.	West. 5374
Rodger, Rutherford D.	Med. 3	348 Sherbrooke St. W., Montreal Hammond, N.Y.	Lan. 1567
Rodger, W. Sherman	Med. 4	265 Prince Arthur St. W., Montreal. Cowansville, Que.	Plat. 5037
Rodgers, Howard W.	Ap. Sci. 2	1176 St. Mark St., Apt. 73, Montreal.	Up. 2331J
Rogers, Neil C.	Med. 2	348 Sherbrooke St. W., Montreal Franklin, N.H.	Lan. 1567
Rogers, Philip T.	Ap. Sci. 1	3637 University St., Montreal Cor. Granville & 57th St., Vancouver, B.C.	Plat. 2681
Rokita, Eli	Pharm. 2	26A Duluth Ave. W., Montreal	Bel. 8545W
Rollit, John B.	Arts 1	4174 St. Catherine St. W., Westmount, Que.	West. 7964
Rolph, Frank B.	Ap. Sci. 4	341 Broadway, Lachine, Que.	Lach. 241
Roman, Fanny	Arts 1	389 Claremont Ave., Westmount, Que.	West. 5230
Rose, Bram	Arts 3	4470 Sherbrooke St. W., Westmount, Que.	West. 7443
Rose, Ambrose McK.	Theology 2	3506 University St., Montreal Flowers Cove, Nfld.	Up. 0290
Rose, Herman R.	Theology 1	3506 University St., Montreal Franklin, Vermont.	Up. 0290
Rose, Lottie	Arts 2	192 Villeneuve St. W., Montreal	Bel. 5716
Rose, Victor C.	Arts 1	3506 University St., Montreal London, England	Up. 0290
Rosen, Charles	Arts 1	1676 Hutchison St., Montreal	At. 5809W
Rosenburg, Zelmore E.	Arts 2	724 Sherbrooke St. W., Montreal	Up. 4250
Rosenbloom, William J.	Ap. Sci. 3	724 Sherbrooke St. W., Montreal 77 Quebec St., Sherbrooke, Que.	Up. 4250
Rosenfeld, Hirsch	Arts 4	1168 Lajoie Ave., Montreal	At. 3046W
Rosenfeld, Jacob M.	Arts 4	4170 Laval Ave., Montreal	Bel. 3721M

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Rosengarten, William	Ap. Sci. 1	861 Durocher Ave., Outremont, Que.	At. 1876F
Rosenhek, Clarence	Arts 4	2576 Hutchison St., Montreal Campbellton, N.B.	
Ross, Agnes B.	Arts 2	5219 Mance St., Montreal 10 McGill St., Hawkesbury, Ont.	
Ross, Donald R.	Ap. Sci. 1	112 Grey Ave., Montreal	West. 5274
Ross, Dorothy J.	Arts 2	367 Metcalfe Ave., Westmount, Que.	West. 0678
Ross, Henry S.	Arch. 3	138 Percival Ave., Montreal West	Wal. 3428
Ross, Howard Irwin	Arts 2	142 Notre Dame St. W., Montreal	Main 3117
Ross, Malcolm MacG.	Med. 4	468 Sherbrooke St. W., Montreal 4377, 11th Ave. W., Vancouver, B.C.	Lan. 0646
Ross, Marian D.	Arts 4	138 Percival Ave., Montreal West, Que.	Wal. 3428
Ross, Margaret Amy	Arts P	1475 Crescent St., Montreal	
Ross, Mary C. M.	Grad. Sch.	140 Clanranald Ave., Montreal	
Ross, Thomas W.	Arts 1	5219 Jeanne Mance St., Montreal Box 295, Hawkesbury, Ont.	
Ross, William B.	Arts 3	367 Metcalf Ave., Westmount, Que.	West. 0678
Ross, William G.	Com. 1	731 Sherbrooke St. W., Montreal	Up. 9134
Rostenburg, Adolph	Med. 2	6 Hutchison St., Montreal 152 E. 179th St., New York, N.Y.	Plat. 1649
Roston, Lucille	Arts P	215 Girouard Ave., Montreal	Wal. 2596
Rothman, Lily	Soc. Workers	17 De L'Epée Ave., Outremont, Que.	At. 7953W
Rothschild, Cedric H.	Arts 3	228 Redfern Ave., Westmount, Que.	West. 8908
Rothstein, Harry Aaron	Med. 3	221 Stanley St., Montreal	Lan. 1963
Rothwell, A. L.	Com. 4	10 Cherrier St., Montreal Cobourg, Ont.	East 1956
Rountree, George M.	Com. 1	445 Mt. Stephen Ave., Westmount, Que.	West. 2883
Routtenburg, Rae Constance	Arts 2	175 St. Joseph Blvd. W., Montreal	Bel. 1992F
Rowan-Legge, Charles K.	Med. 1	67 McTavish St., Montreal 398 Tower Rd., Halifax, N.S.	Up. 9130
Rowat, Charles A. R.	Arts 2	572 Lansdowne Ave., Westmount, Que.	West. 4096
Rowat, Isabel McK.	Arts 2	572 Lansdowne Ave., Westmount, Que.	West. 4096
Rowat, Edward	Com. 2	634 Murray Ave., Westmount, Que.	West. 1549
Rowe, Sydney	Theology 3	3506 University St., Montreal 64 Hunter St., Toronto, Ont.	Up. 0290
Rowland, Esther A.	Arts 2	3515 Shuter St., Montreal	Plat. 4421
Rowles, William	Grad. Sch.	3506 University St., Montreal Empress, Alta.	
Rowley, G. David	Med. 1	348 Sherbrooke St. W., Montreal 7 Academy St., Amherst, N.S.	Lan. 1567
Rowley, Harry John	Grad. Sch.	210 Milton St., Montreal	
Roy, Theodore E.	Med. 2	198 Milton St., Montreal Grande Ligne, Que.	Plat. 4430
Ruark, Alice	Arts 4	1105 Bernard Ave., Montreal	At. 4835
Rubin, Isadore	Arts 4	4399 De Bullion St., Montreal	Bel. 0324
Rubin, Jack	Arts 1	1074 City Hall Ave., Montreal	Lan. 5615
Rubin, Jacob S.	Med. 3	2071 Peel St., Montreal 2041, 65th St., Brooklyn, N.Y.	Lan. 9359
Rubin, Lionel L.	Arts 2	4118 Western Ave., Westmount, Que.	West. 7951
Rubinovitch, Sigmund M.	Arts 1	448 Argyle Ave., Westmount, Que.	West. 2695
Rubinstein, Joseph E.	Med. 3	177 St. Joseph Blvd., W. Montreal	Bel. 7314W
Rubinstein, Michael	Arts 4	177 St. Joseph Blvd., W. Montreal	Bel. 7314W
Runnells, L. Kathleen	Arts 4	351 Melville Ave., Westmount, Que.	West. 0738
Ryan, Leo	Ap. Sci. 2	15 Sunnyside Ave., Westmount,	West. 4257
Ryder, Frederick J.	Ap. Sci. 3	1618 Leclair Ave., Montreal	Clair. 4602J
Sabourin, Roland P.	Law 1	15 Sherbrooke St. W., Montreal St. Jean, Que.	Lan. 2596
Sadler, Charles G. W.	Arts 3	37 Windsor Ave., Westmount, Que.	West. 1816
Saffran, Irving Joseph	Pharm. 1	4082 Laval Ave., Montreal	
Saffran, Louis	Pharm.	5277 Clarke St., Montreal	Cres 2635
Saibil, Dave P.	Arts 4	5984 St. Urbain St., Montreal	Bel. 4328
Saint-Germain, E.	Com. 2,	3501 Jeanne Mance St., Montreal	Plat. 3719
*St. Germain, Guy	Dent. 3	1680 St. André St., Montreal 125 Alexander St., Sherbrooke, Que.	

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St. Germain, Ralph	Com. 3	3647 University St., Montreal 122 Cartier St., Ottawa, Ont.	Plat. 5070
Salamis, N. C.	Theology	3473 University St., Montreal	Up. 1475
Salmon, Udall J.	Med. 4	1754 Hutchison St., Montreal 1468 Seabury Place, New York, N.Y.	At. 5019J
Salomon, Florence F.	Soc. Workers	4211 Esplanade Ave., Montreal	Bel. 8550
Salomon, Isidore J.	Arts 4	4211 Esplanade Ave., Montreal	Bel. 8550
Samit, Gladys Etta	Arts 2	15 Church Hill, Westmount, Que	West. 4166
Sammett, Jeannette A.	Med. 4	699 Girouard Ave., Montreal	Wal. 3718J
Sampson, David A.	Med. 2	3443 Durocher St., Montreal 1820 College Ave., Regina, Sask.	Plat. 1255
Sampson, Ronald M.	Grad. Sch.	5847 Park Ave., Montreal North Hatley, Que.	
Sampson, Walter P.	Arts 1	348 Sherbrooke St. W., Montreal Gananoque, Ont.	Lan. 1567
Sancton, Edward H.	Arts 2	375 Notre Dame de Grace Ave., Montreal	Wal. 0010
Sancton, Richard A.	Arts 1	375 Notre Dame de Grace Ave., Montreal	Wal. 0010
Sangster, Eric Nagle	Arts 1	305 Prince Arthur St. W., Montreal Windsor, N.S.	Plat. 4220
Sankey, Charles Alfred	Grad. Sch	459 Sherbrooke St. W., Montreal Sidney Cottage, Belleville, Ont.	
Sargent, Johnson B.	Med. 1	146 Milton St., Montreal Bridgewater, Me.	Plat. 6543
Saunders, Fred. E.	Arts 1	304 Prince Arthur St. W., Montreal 2905 Hemlock St., Vancouver, B.C.	Plat. 3624
Saunders, John S.	Ap. Sci. 1	215 Brock Ave. N., Montreal West, Que.	Wal. 1481W
Savage, Palmer E.	Ap. Sci. 1	154 Ballantyne Ave. N., Montreal West, Que.	Wal. 2301
Sawyer, William Reginald	Grad. Sch	Strathcona Hall, Montreal 183 University Ave., Kingston, Ont.	
Saylor, Norman H.	Arts 2	Caughnawaga, Que.	
Schacher, Helen	Arts 2	95 Sherbrooke St. E., Montreal	Lan. 7585
Schachter, Samuel N.	Arts 3	155 Mount Royal Ave. W., Montreal	Bel. 5106J
Schaffner, Vernon D.	Med. 3	96 Pine Ave. W., Montreal Lawrencetown, N.S.	Plat. 3472
Scharf, Robert E.	Arts 4	360 Kensington Ave., Montreal Edwards, Ont., R.R. No. 1	West. 1505
Schein, Frank P.	Pharm.	3903 St. Dominique St., Montreal	
Schleien, Donna S.	Grad. Sch.	6300 St. Denis St., Montreal	
Schleifer, Sol.	Law 3	741 Querbes Ave., Apt. 4, Outremont, Que.	At. 4937
Schlesinger, Israel A.	Med. 5	3730 City Hall Ave., Montreal	Lan. 0003
Schloen, John Henry	Ap. Sci. 1	1227 Bernard Ave., Outremont, Que. Maple Ave., North Glenside, Penna.	At. 7646
Schmit, Richard H.	Med. 2	468 Sherbrooke St. W., Montreal 410 West 29th St., Erie, Penna.	Lan. 0646
Schnebly, Frances E.	Arts 1	124 Brock Ave. N., Montreal West, Que.	Wal. 1067
Schnee, Charles Frederick	Med. 1	48 Lorne Ave., Montreal 5236, 70th St., Maspeth, L.I., N.Y.	Plat. 4996
Schottenfeld, Louis E.	Med. 4	3555 University St., Montreal 329 Knickerbocker Ave., Brooklyn, N.Y.	Plat. 0753
Schuller, Riva Bertha	Arts P	722 Rockland Ave., Outremont, Que.	
Schurman, Robert A.	Arts 1	759 Upper Lansdowne Ave., Westmount, Que.	West. 8228
Schwartz, Arthur Gilman	Arts 2	Apt. 1, 79 Laurier Ave. W., Montreal	Cres. 4888
Schwartz, Max A.	Arts 4	5010 Sherbrooke W., Apt. 16, Montreal	West. 4426
Schwartz, Sophie	Arts 1	4445 Esplanade Ave., Montreal	
Schwisberg, Cyril Edgar	Law 1	4405 Esplanade Ave., Montreal	Bel. 2616
Scobell, Olive A.	Arts 4	242 Sherbrooke St. W., Montreal	Plat. 5319
Scott, David F.	Arts 3	371 Dorchester St. E., Montreal Zillah, Wash.	
Scott, George I. F.	Arts 3	32 Vendome Ave., Montreal	Wal. 5401
Scott, M. Eileen	Grad. Sch.	2579 Hutchison St., Montreal	Cres. 7680
Scott, Roger W.	Ap. Sci. 1	348 Sherbrooke St. W., Montreal Wardman Park, Washington, D.C.	Lan. 1567

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Scott-Moncrieff, Louis	Com. 3	775 Sherbrooke St. W., Montreal 1535 Richardson St., Victoria, B.C.	Up. 2143
Seale, Wesley A.	Arts 1	169 Selby St., Westmount, Que. 23 Roebuck St., Barbados, B.W.I.	West. 5114
Seaman, Helen E.	Arts P.	54 Brunet Ave., Pointe Claire, Que.	Pt. Claire 271
Seaton, William B.	Com. 2	3503 Shuter St., Montreal	Plat. 0688
Secker, E. C.	Theology	3473 University St., Montreal Brownsburg, Que.	Up. 1475
Seeley, Edgar T. H.	Arts 2	3661 Jeanne Mance St., Montreal 5 Dufferin Row, West St. John, N.B.	Plat. 5437
Segal, Mendel	Law 1	3522 St. Famille St., Montreal	Plat. 3783
Seguin, J. O. F. H.	Ap. Sci. 1	6726 St. Hubert St., Montreal	Cal. 0161
*Seigel, Philip	Pharm. 1	2639 Hutchison St., Montreal	
Seltzer, Joseph	Arts 1	4835 Esplanade Ave., Montreal	Bel. 3028J
Senkeivitz, Lucy J.	Arts 2	5960, 6th Ave., Rosemount, Que.	Clair, 5528J
Senzilet, S.	Arts 4	1661 Grubert St., Montreal	Lan. 5409
Severs, George	Com. 4	726 Upper Lansdowne Ave., Westmount, Que	West. 3990
Seymour, Jas. Wm.	Com. 4	1258 Metcalfe St., Apt. 64, Montreal	Lan. 6607
Seybold, J. Edward	Com. 1	331 Lansdowne Ave., Westmount, Que.	West. 8896
Shackell, Aubrey C.	Com. 1	38 Hutchison St., Montreal	Plat. 4575
Shankman, Harry Loeb	Med. 5	23 Joyce Ave., Outremont, Que.	At. 5850
Shapiro, Evelyn	Arts 2	353 Addington Ave., Montreal	Wal. 4463
Shapiro, Goldye Rhoda	Arts 2	17 Bellingham Rd., Outremont, Que.	At. 0031
Shapiro, Hyman	Arts 3	5230 Waverley St., Montreal	Cres. 5058
Shapiro, Lionel S. B.	Arts 3	Apt. 5, 5250 Park Ave., Montreal	Cres. 8802
Shapiro, Louis A.	Arts 4 & Med. 1.	6415 Papineau Ave., Montreal	Cal. 7021W
Shapiro, Simon	Arts 3	5392 Esplanade Ave., Montreal	Cres. 7226
Shapiro, Theodore H.	Arts 3	353 Addington Ave., Montreal	Wal. 4463
Sharkey, Norman F.	Arts 3	Apt. 2, 2090 Peel St., Montreal	Lan. 9885
Sharp, Gertrude F.	Arts 3	341 Cote St. Antoine Road, Westmount, Que	West. 2973
Sharp, Helen Mary G.	Arts 3	341 Cote St. Antoine Road, Westmount, Que 135 Academy St., Watertown, N.Y.	West. 2973
Sharp, Lewis L.	Com. 2	304 Prince Arthur St. W., Montreal. Manhasset, Long Island, N.Y.	
Sharpe, Gladys M.	Grad. Nurses 1.	150 Durocher St., Montreal 1 Webb Ave., Toronto, Ont.	Plat. 1462
Sharpe, Mabel	Grad. Nurses 1.	1535 Mountain St., Montreal 110 Lascelles Blvd., Toronto, Ont.	Up. 7905
Shaw, Geoffrey T.	Arts 2	Ste. Anne de Bellevue, Que.	Ste. Annes 277
Shearwood, Alexander P.	Arts 3	120 Aberdeen Ave., Westmount, Que.	West. 2777
Shelly, Leon C.	Com. 3	775 Sherbrooke St. W., Montreal 1563 Matthews Ave., Vancouver, B.C.	Up. 2143
Sheltus, Kenneth A.	Com. 2	3506 University St., Montreal Bedford, Que.	Up. 0290
Shenkman, J. Harold	Arts 1	5056 Sherbrooke St., Montreal 271 Laurier East, Ottawa, Ont.	Wal. 4695J
Shenkman, Sadie M.	Arts 4	60 Northcliffe Ave., Montreal 271 Laurier East, Ottawa, Ont.	Wal. 0737
Sheps, Philip	Ap. Sci. 3	315 Pine Ave. W., Montreal 260 Alfred Ave., Winnipeg, Man.	Up. 2991
Sherman, David	Med. 2	4309 Esplanade Ave., Montreal 636 Victoria Rd., Sydney, N.S.	Bel. 0444W
Sherwin, Lewis	Arts 2	5639 Esplanade Ave., Montreal	
Sherwood, Miriam S.	Phys. Ed. 2.	3466 University St., Montreal 4 Regent St., Ottawa, Ont.	Up. 3369
Shister, Hyman	Arts 4 & Med. 1.	3695 City Hall Ave., Montreal	Lan. 5730
Shlakman, Vera	Arts 2	317 St. Joseph Blvd. W., Montreal	At. 7709
Shoolman, Regina L.	Arts 3	5354 Jeanne Mance St., Montreal	Cres. 4996
Short, Edwin James	Med. 5	3477 Shuter St., Montreal Hants Harbour, Newfoundland	Plat. 2414
Short, Mary Gertrude G.	Arts 1	729 Belmont Ave., Westmount, Que.	West. 0755

*Left early in the Session.

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Shotton, John Allison	Med. 5	348 Sherbrooke St. W., Montreal Kamloops, B.C.	Lan. 1567
Shuirman, Gilbert	Arts 2	2684 Hutchison St., Montreal	At. 6906
Shulman, Abraham	Med. 2	5119 St. Lawrence Blvd., Montreal	Bel. 8052M
Shuster, Samuel	Arts 1	1081 St. Lawrence Blvd., Montreal	Lan. 4038
Shute, Arthur W.	Arts 1	756 Sherbrooke St. W., Montreal	Up. 5873
Sichel, E. Manley R.	Arts 2	Apt. 1, 5437 Park Ave., Montreal	Cres. 2273
Sichel, Ferdinand J. M.	Arts 4	5437 Park Ave., Montreal	Cres. 2273
Silverman, Archie	Arts 4	4871 St. Lawrence Blvd., Montreal	Bel. 6967J
Silverman, Beatrice Ida	Grad. Sch.	3669 City Hall Ave., Montreal	
Silverman, Eddie	Arts 3	4871 St. Lawrence Blvd., Montreal	Bel. 6967J
Silverman, Gertrude	Med. 4	4871 St. Lawrence Blvd., Montreal	Bel. 6967J
Silverman, Jacob	Arts 4	3855 St. Urbain St., Montreal	
Silverman, Joseph Louis	Arts 2	22 Napoleon St., Montreal	Plat. 3349
Silverstone, Freda	Com. 1	943 St. Catherine St. W., Montreal	Up. 3482
Siminovitch, Jack	Arts 1	170 Laurier Ave. W., Apt. 3, Montreal	Bel. 4430
Simon, Beatrice V.	Lib. Sch. 1	1015 Sherbrooke St. W., Montreal	West. 7930
Simpson, G. Francis	Arts 4	348 Sherbrooke St. W., Montreal 93 Park Ave., Quebec City, Que.	Lan. 1567
Simpson, George A.	Med. 3	304 Prince Arthur St. W., Montreal 105 Victoria St., Sarnia, Ont.	Plat. 3624
Simpson, R. Geoffrey	Dent. 4	355 Melville Ave., Westmount, Que.	West. 8921
Simpson, Virginia D.	Arts 2	375 Beaconsfield Ave., Montreal	Wal. 0682
Sinclair, Cecilia	Phys. Ed. 2	5355 Park Ave., Montreal 120 Powell Ave., Ottawa, Ont.	Cres. 3777
Sinclair, Harry	Com. 3	5343 Park Ave., Montreal	Cres. 2663
Sinclair, Harry A.	Med. 5	2678 Hutchison St., Montreal	At. 7424
Sinclair, Rebecca E.	Arts 2	Royal Victoria College, Montreal Emerald, P.E.I.	Plat. 0078
Sinclair, Tennyson B.	Med. 1	Apt. 9, 39 Lorne Ave., Montreal 70A King St., Kingston, Jamaica	Plat. 5833
Singer, Hyman Oscar	Arts 3	4269 Esplanade Ave., Montreal	Bel. 8969
Sise, Philip Fleetwood	Arts 2	Acadia Apts., Montreal	Up. 6107
Skelly, Patrick J.	Ap. Sci. 1	50 Coursol St., Montreal	Up. 5526J
Skelton, Cecil H.	Ap. Sci. 2	379 Roslyn Ave., Westmount, Que.	West. 2659
Slapack, Max	Arts 3	6020 Esplanade Ave., Montreal	Cres. 2917
Slatkoff, William R.	Arts 3	5331 Park Ave., Montreal	Cres. 8429
Slattery, Patrick J.	Ap. Sci. 3	700 De L'Epée Ave., Outremont, 10 Gordon St., Sherbrooke, Que.	At. 0762
Slotin, Julius M.	Pharm 1	5158 Jeanne Mance St., Montreal	Bel. 0395
Smart, Janet Bell	Arts 1	70 Cedar Ave., Montreal	Up. 4468
Smit, John Surman	Med. 1	738B De L'Epée Ave., Outremont, Que.	At. 3132J
Smith, Arnold W.	Ap. Sci. 4	166 Querbes Ave., Outremont, Que. Hillcrest, Alta.	At. 0259
Smith, Beatrice A.	Arts 2	6025 St. Michel Rd., Montreal Upper Bedford, Que.	Clair. 1705
Smith, Cicely E.	Arts 4	740 Roslyn Ave., Westmount, Que.	West. 4620
Smith, Doreen R.	Phys. Ed. 1	The Hostel, 3466 University St., Montreal c/o E. Bernard Smith, Corner Brook, Nfld.	Up. 3369
Smith, Douglas P.	Com. 2	760 Cote St. Antoine Rd., Montreal	Wal. 5729
Smith, Edgar W.	Law 3	111 Merton Ave., St. Lambert, Que. Danville, Que.	St. Lam. 291W
Smith, Frederick McIver	Med. 3	55 Clandeboye Ave., Westmount, Que.	West. 4396
Smith, George H.	Theology 2	3506 University St., Montreal	Up. 0290
Smith ,Gordon C.	Ap. Sci. 3	476 Mountain Ave., Westmount, Que. 79 Grande Allée, Quebec, Que.	West 6729
Smith, Hamilton L.	Law 2	3434 McTavish St., Montreal 15 Buena Vista Rd., Ottawa, Ont.	Up. 8633
Smith, J. Donald	Arts 4	55 Clandeboye Ave., Westmount, Que.	West. 4396
Smith, Lewis Douglas	Ap. Sci. 1	348 Sherbrooke St. W., Montreal 246 Oxford W., Moose Jaw, Sask.	Lan. 1567
Smith, Margaret	Arts 1	1427 Fort St., Montreal	Up. 1569
Smith, Margaret Stuart	Arts 2	230 Wood Ave., Westmount, Que.	West. 5368F

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Smith, Mavis B.	Arts 3	6025 St. Michel Rd., Montreal Upper Bedford, Que.	Clair. 1705
Smith, M. Hazel	Arts 3	573 Lansdowne Ave., Westmount, Que.	West. 2766
Smith, Paul Sherman	Law 2	3581 University St., Montreal Hawkesbury, Ont.	Plat. 6979
Smith, R. Douglas	Arts 3	240 Clifton Ave., Montreal	Wal. 1850W
Smith, Ralph Leaman	Arts 2	751A Querbes Ave., Outremont, Que.	At. 3469
Smith, Ruth Hutchinson	Arts 3	386 Sherbrooke St. W., Montreal Hawkesbury, Ont.	
Smith, W. S.	Theology	3473 University St., Montreal c/o Church Army Headquarters, Begauston St., Mi., London, Eng.	Up. 1475
Smye, Frank Hasell	Arts 4	54 Victoria St., Montreal South, Que.	
Smyth, Henry Ross	Ap. Sci. 3	4822 Western Ave., Westmount, Que.	West. 4218
Smyth, Margaret Lorraine	Arts 3	573 Oxford Ave., Montreal	Wal. 3945W
Smyth, Muriel	Phys. Ed. 1	3508 University St., Montreal	Up. 4092
Snegireff, Leonid	Arts 2	1175 Champlain St., Montreal	East 8385 M
Snelgrove, A. K.	Grad. Sch.	3506 University St., Montreal Box 454, St. John's, Newfoundland	Up. 0290
Snell, Evelyn D.	Arts 1	MacDonald College, Que.	
Snell, John Morphy	Arts 4	MacDonald College, Que.	Ste. Annes 137W
Snowdon, Cecil Virginia	Arts 1	337 Grosvenor Ave., Westmount, Que.	
Snyder, Eugene R.	Med. 4	287 Peel St., Montreal 46 West 83rd St., New York, N.Y.	Up. 4547
Snyder, I. John Kellerman	Arts 2	129 St. Joseph Blvd. West, Montreal. 64 Cardinal Ave., St. Laurent, Que.	Bel. 1484F
Snyder, Jean Norma M.	Arts 3	71 Church Ave., Verdun, Que.	York 0123
Socolow, Louis	Med. 2	3536 City Hall Ave., Montreal	Lan. 4036
Sohmer, Maurice	Com. 1	2613 Hutchison St., Montreal	
Solomon, Saul	Med. 3	2683 Hutchison St., Montreal	At. 7113
Somerville, Henry A. D.	Arts 1	101 Fort St., Montreal Hemingford, Que.	Up. 2188W
Somerville, Isabella M.	Arts P	631 Carleton Ave., Westmount, Que.	West. 0725
Sorkin, Maurice H.	Com. 4	6510 Cartier St., Montreal	Cal. 8292W
Southam, William W	Ap. Sci. 2	26 McTavish St., Montreal 15 Inglewood Drive, Hamilton, Ont.	Up. 8633
Sozansky, John	Ap. Sci. 3	2052 Frontenac St., Montreal	Amh. 4688
Spears, Russel B.	Com. 4	3581 University St., Montreal 437 Wellington St., Sarnia, Ont.	Plat. 6979
Spector, Leo	Med. 2	425 Durocher Ave., Outremont, Que.	At. 1416
Spector, Reuben	Arts 4	4611 Esplanade Ave., Montreal	Bel. 9768M
Spence, Kenneth W.	Arts 3	348 Hingston Ave., Montreal	Wal. 1482
Spooner, Raymond Hildreth	Med. 1	71 St. Luke St., Montreal Brimfield, Mass.	Up. 7131
Spratt, George H.	Ap. Sci. 4	3535 Shuter St., Montreal R.R. No. 1, Billings Bridge, Ont.	Plat. 5154
Sprenger, William P.	Arts 1	456 Beaconsfield Ave., Montreal	Wal. 6958
Sprigings, Gordon McG	Ap. Sci. 2	43 Nelson Ave., Outremont, Que.	At. 0315
Sprigings, John Edward H.	Arts 1	43 Nelson Ave., Outremont, Que.	At. 0315
Spring, John Denison	Med. 3	3592 Durocher St., Montreal Nashua, N.H.	Plat. 6796
Spurrell, Stephen	Theology 1	3506 University St., Montreal Dunfield, Trinity Bay, Nfld.	Up. 0290
Stadler, John Charles	Ap. Sci. 3	4334 Westmount Ave., Westmount, Que.	West. 5947
Stanfield, Kathryn	Arts 1	Royal Victoria College, Montreal Truro, N.S.	Plat. 0078
Stansfield, Ellen E. G.	Arts 3	82 Westmount Blvd., Westmount, Que.	West. 7771
Stark, George J. M.	Com. 4	466 Sherbrooke St. W., Montreal 123 Olive St., Victoria, B.C.	
Starkey, Duncan H.	Med. 2	3591 University St., Montreal	Plat. 3630
Stattner, Philip	Med. 2	139 Pine Ave. E., Montreal	Lan. 8054
Stead, F. Elizabeth	Arts 2	Royal Victoria College, Montreal 257 Princess St., St. John, N.B.	Plat. 0078
Steele, Harwood E. R.	Arts P	276 Pine Ave. W., Montreal	
Steele, Helen Marie	Arts P	441 Strathcona Ave., Westmount, Que.	West. 1077

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Stein, Albert L.	Arts 3	2278 Hutchison St., Montreal	Cres. 3670
Stein, Joe.	Com. 1	2278 Hutchison St., Montreal	Cres. 3670
Stein, Samuel	Com. 1	128 Bagg Ave., Montreal	
Stein, Lyon	Med. 5	3601 University St., Montreal	Plat. 1365
Stephens, Sidney A.	Arts 1	3429 Peel St., Montreal	Up. 5947
		Strath Haven Inn, Swarthmore, Pa.	
Steuerwald, Clinton F.	Dent. 4	3429 Peel St., Montreal	Up. 5947
		Canaan, N.Y.	
Stevens, Marjorie E.	Grad. Nurses 1.	4124A St. Catherine St. W., Westmount, Que.	West. 6206
		Cochrane, Ont.	
Stevens, Molly N.	Soc. Workers	2 Bishop St., Montreal	Up. 6460
		Amherst, N.S.	
Stevenson, Robert Hall	Med. 1	3520 University St., Montreal	Up. 5500
		Danville, Que.	
Stewart, Flora M.	Arts 2	382A Claremont Ave., Montreal	West. 5693
Stewart, Hugh M.	Arts 3	4634 Marquette St., Montreal	Amh. 5806
Stewart, Jean Eileen	Lib. Sch.	458 Claremont Ave., Westmount, Que.	West. 0147
		1837, 19th Ave. W., Vancouver, B.C.	
Stewart, Robert De Grey	Com. 2	464 Wood Ave., Westmount, Que.	West. 0901
Stewart, William Allan	Arts 2	3506 University St., Montreal	Up. 0290
		Kinburn, Ont.	
Stilwell, Luther Hamilton	Dent. 3	1250 St. Matthew St., Montreal	Up. 2040
Stirling, Hugh John M.	Ap. Sci. 3	348 Sherbrooke St. W., Montreal	Lan. 1567
		1031 Terrace Ave., Victoria, B.C.	
Stobart, Walter Turner	Ap. Sci. 2	4045 Lanouette St., Verdun, Que.	
Stockhausen, Joseph Methuen.	Med. 5	348 Sherbrooke St. W., Montreal	Lan. 1567
		Duncan's, Jamaica, B.W.I.	
Stockton, Margaret I.	Arts 1	Royal Victoria College, Montreal	Plat. 0078
		802 Prospect Ave., Calgary, Alta.	
Stockwell, Walter C.	Arts 1	3506 University St., Montreal	Up. 0290
		Stanstead, Que.	
Stockwell, William G.	Arts 1	3506 University St. Montreal	Up. 0290
		Stanstead, Que.	
Stoker, Dorothy S.	Arts 4	659 Grosvenor Ave., Westmount, Que.	West. 6451
Stone, Fred V.	Arts 1	Apt. 10, 3474 Park Ave., Montreal	Plat. 0476
		Alix, Alta.	
Storr, Edward	Arts P	1241 Drummond St., Montreal	
Strain, William J.	Com. 3	7025 Chateaubriand Ave., Montreal	Cal. 0388
Stratton, John Wilkins	Com. 1	455 Mt. Pleasant Ave., Westmount, Que.	
		373 Park St., Peterborough, Ont.	
Strauss, Rubin	Arts 3	3924 Drolet St., Montreal	East 5459J
Strickland, Harold	Med. 3	348 Sherbrooke St. W., Montreal	Lan. 1567
		132 Osgoode St., Lawrence, Mass.	
Stuart, Francis L.	Arts 2	4355 Westmount Ave., Montreal	West. 8098
Stuart, Hugh Alex.	Med. 5	Children's Memorial Hospital, Montreal	Up. 9020
		169 Park St., Sydney, N.S.	
Sturman, Pasco	Pharm.	629 Centre St., Montreal	Lan. 4790
Sturrock, Murray Gray	Grad. Sch.	466 Sherbrooke St. W., Montreal	
		219 St. Clair Ave. W., Toronto, Ont.	
Sullivan, Charles N.	Med. 3	320 Prince Arthur St. W., Montreal.	Plat. 0761
		66 Warburton St., Fall River, Mass.	
Sullivan, Gertrude E.	Phys. Ed. 2.	1156 Bishop St., Montreal	Up. 6460
		800 Dorchester St. W., Montreal	
Sullivan, Norah Ethel N. C.	Arts 3	70 Cedar Ave., Montreal	Up. 6593
Supple, Jeffrey H.	Ap. Sci. 1	2015 University St., Apt. 416, Montreal	
		Pembroke, Ont.	
Sutherland Brian Porter	Grad. Sch.	1444 Mansfield St., Montreal	
Sutherland, George F.	Med. 5.	348 Sherbrooke St. W., Montreal	Lan. 1567
		1838 Matthews Ave., Vancouver, B.C.	
Sutton, Gerald L.	Arts 1	10434 Delorimier Ave., Montreal	Cal. 5180J
Sutton, Gordon A.	Ap. Sci. 2	815 Pratt Ave., Outremont, Que.	At. 3897
Sutton, Joseph C.	Med. 5.	5576 Jeanne Mance St., Montreal	Bel. 1433J
Swabey, Alan	Com. 2	248 Old Orchard Ave., Montreal	Wal. 4377M
Swan, Andrew W. D.	Com. 3	348 Sherbrooke St. W., Montreal	Lan. 1567
		445 McLeod St., Ottawa, Ont.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Swanson, Ann Grace	Phys. Ed. 2	1483 Atwater Ave., Apt. 5., Montreal	Up. 5449
Swett, Clyde Irving	Med. 3	2058 City Councillors St., Montreal 187 Parkview Ave., Bangor, Me.	Plat. 7553
Sykes, William Ed	Ap. Sci. 4	4651 Delorimier Ave., Montreal	Amh. 6453
Symes, Gordon C	Arts 4	113 Lewis Ave., Westmount, Que.	West. 6361
Taft, Albert Hamilton	Med. 1	82 Pine Ave. W., Montreal Main St., Winchester, N.H.	Plat. 0895
Taggart, Eugene McKay	Ap. Sci. 3	825 University St., Montreal 211 Clemow Ave., Ottawa, Ont.	Plat. 3464
Tait, Alexander Hunter	Arts 1	632 Grosvenor Ave., Westmount, Que.	West. 4321
Tait, Gordon E	Ap. Sci. 2	632 Grosvenor Ave., Westmount, Que.	West. 4321
Tait, Helga	Arts 2	3581 Durocher St., Montreal	Plat. 4335
Talbot, Ernest J	Arts 1	3579 Park Ave., Montreal Box 444, Valleyfield, Que.	
Talbot, William Edward	Med. 2	1441 Drummond St., Montreal Hamilton, Bermuda, B.W.I.	Up. 6500
Talpis, Clarence	Arts 4	50 Arlington Ave., Westmount, Que.	West. 6826
Tamarin, Esther	Arts 1	5130 Jeanne Mance St., Montreal	Bel. 6881F
Tannahill, Eunice M	Arts 4	Royal Victoria College, Montreal Huntingdon, Que.	Plat. 0078
Tanner, Lorraine L	Arts 3	1080 Lajoie Ave., Outremont, Que.	At. 6925
Tansey, John Gordon	Com. 1	654 Belmont Ave., Westmount, Que.	West. 2800
Tansey, Rose Mary C	Grad. Nurses 1	1102 Drummond St., Montreal	Up. 3345
Taprell, Jane Elizabeth	Arts 1	Royal Victoria College, Montreal 823 Royal Ave. W., Calgary, Alta.	Plat. 0078
Tartar, Frank	Pharm. 1	3762 Clarke St., Montreal	Plat. 7331
Tarbox, Byron R	Med. 1	320 Prince Arthur St. W., Montreal 619 No. Center Ave., Miles City, Mont.	Plat. 0761
Tatleman, Maurice	Med. 5	5581 St. Urbain St., Montreal	Cal. 4575J
Tatley, Blair B	Phys. Ed. 1	3475 Durocher St., Montreal	Plat. 7088
Taub, Elsie	Arts 1	5826 Park Ave., Montreal	Cres. 5147
Taylor, Bertram W	Arts 4	294 Oxford Ave., Montreal	Wal. 0128W
Taylor, Frank Denzil	Ap. Sci. 4	348 Sherbrooke St. W., Montreal Golden Ridge, Barbados, B.W.I.	Lan. 1567
Taylor, Ernest I	Theology	17 Chomedy St., Montreal	
Taylor, Frederick B	Arch. 3	823 University St., Montreal 3 Hillcrest, Rd., Rockcliffe, Ont.	Plat. 0354
Taylor, Frederick W	Arts 3	3506 University St., Montreal 7 Delaware St., Belfast, Ireland	Up. 0290
Taylor, George Douglas L	Med. 5,	317 Pine Ave. W., Montreal 2117 Rose St., Regina, Sask.	Up. 8731
Taylor, George E. S	Com. 1	1445 Metcalfe St., Montreal 175 Athabasca St., W., Moosejaw, Sask.	
Taylor, George Ian G	Arts 2	3647 University St., Montreal 6 Wright St., Hull, Que.	Plat. 5070
Taylor, Gordon R	Arts 4	129 Dorchester St. W., Montreal Carleton Place, Ont.	
Taylor, Jack Sutherland	Com. 1	128 Bedbrooke Ave., Montreal West, Que.	Wal. 3595
Taylor, Kenneth Austin	Grad. Sch	3647 Durocher St., Apt. 8, Montreal.	
Taylor, Kenneth E	Arts P	4652 Sherbrooke St. W., Montreal	West. 2265
Teakle, Dorothy T	Arts 3	4063 Dorchester St., Montreal	West. 2842
Teed, Mary Constance	Arts 1	Dorchester, N.B.	
Temple, Allen	Med. 3	561 Roslyn Ave., Westmount, Que.	West. 1023
Tennant, Marjorie E	Arts 2	156 Easton Ave., Montreal West, Que.	Wal. 0821
Terk, Sophie	Arts P	3834 Clarke St., Montreal	Plat. 4913
Terwilliger, William G	Med. 4	317 Pine Ave. W., Montreal Highland, N.Y.	Up. 8731
Tessier, Leo Joseph	Med. 2	701 St. Joseph Blvd. E., Montreal 349 Manton Ave., Providence, R.I.	Cher. 6019
Theobalds, Thomas R	Ap. Sci. 4	348 Sherbrooke St. W., Montreal Rose Hill, Castries, St. Lucia, B.W.I.	Lan. 1567
Thibodeau, Jean Joseph E	Arch. 1	5593 Park Ave., Montreal	Bel. 6111
Thiessen, Louis John	Dent. 2	2020 Victoria St., Suite 8, Montreal. 7 Terrace Place, Troy, N.Y.	

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Thom, Alexander T.	Arts 3	369 Elm Ave., Westmount, Que.	West. 1535
Thomas, King P.	Arts 1	219 Milton St., Montreal	Plat. 0475
		British Guiana	
Thomas, William F.	Ap. Sci. 2 & Arts 4	2548 Hutchison St., Outremont, Que.	Cres. 2958
Thompson, Ernest D.	Med. 1	271 Prince Arthur St. W., Montreal	Plat. 3865
		23 Charlesfield St., Providence, R.I.	
Thompson, Helen L.	Arts 1	492 Grosvenor Ave., Montreal	West. 2147
Thompson, Hugh H.	Med. 4	745 Shuter St., Montreal	Plat. 2414
		Box 56, Gananoque, Ont.	
Thompson, John E.	Com. 4	492 Grosvenor Ave., Montreal	West. 2147
Thompson, Lois A.	Arts 1	1431 Stanley St., Montreal	
		St. Andrews, N.B.	
Thompson, William B.	Arts 4	627 Belmont Ave., Westmount, Que.	West. 0676
Thompson, Winifred	Arts 1	157, 17th Ave., Lachine, Que.	Lach. 203M
Thomson, Alice Ruth	Arts 4	5229 Sherbrooke St. W., Montreal	Wal. 5890
Thomson, Elihu	Ap. Sci. 1	695 Grosvenor Ave., Westmount, Que.	West. 0518
Thornton, Robert Lyster	Arts 2	Rosemere, Co. Terrebonne, Que.	Ste. Therese 147 r 1-2
Thorpe, Benjamin J.	Arts 4	2445 Davidson St., Montreal	Clair. 6783J
Tilt, Elma Mary	Arts 1	352 Metcalfe Ave., Westmount, Que.	West. 2425
Tilton, Fred. B.	Com. 4	308 Prince Arthur St. W., Montreal.	Plat. 7472
		55 Orange St., St. John, N.B.	
Timm, Chas. Ritchie	Ap. Sci. 2	343 Lansdowne Ave., Westmount, Que.	West. 0015
Tinkoff, Lazarus	Arts 4	106 Demontigny East, Montreal	Lan. 8531
Titleman, Moe	Arts 1	4387 St. Urbain St., Montreal	Bel. 7373W
Todd, Evelyn M.	Arts 3	597 Argyle Ave., Westmount, Que.	West. 0722
Tomlinson, Ruth N.	Arts 2	Royal Victoria College, Montreal	Plat. 0078
		Cornwall, Ont.	
Tooke, Elizabeth M.	Arts 2	1482 Mountain St., Montreal	
Toole, Francis James	Grad. Sch.	41 Hutchison St., Montreal	
		1 Orleans Rd., London, N.19, Eng.	
Tough, David	Arts 1,	3485 McTavish St., Montreal	Up. 9130
		Paris. Ont.	
Townsend, Milton G.	Arts 1	95 McCulloch Ave., Outremont, Que.	At. 0344W
Townsend, Robert G.	Med. 4	317 Pine Ave. W., Montreal	Up. 8731
		401 Ave. D, South, Saskatoon, Sask.	
Townsend, Stuart R.	Arts 3	261 Desmarchais Blvd., Montreal	York 2478F
Touzel, C. S. Eugene	Med. 5	75 Cedar Ave., Montreal	Up. 9020
		1108 Somerset St., Ottawa, Ont.	
Trainor, George William	Com. 3	220 Redfern Ave., Westmount, Que.	West. 4467
Traver, Lillie Augusta	Grad. Sch.	66 St. Luke St., Montreal	
		Strathroy, Ont.	
Tremain, Kenneth H.	Ap. Sci. 3	845 University St., Montreal	Plat. 2681
		Kingscroft, Windsor, N.S.	
Trimingham, Hugh Gerald L.	Arts 1	486 Argyle Ave., Westmount, Que.	West. 2228
Trister, Saul M.	Arts 3	4384 St. Lawrence Blvd., Montreal	Bel. 6511W
Trudel, Lucien	Arts 3	5589, 1st Ave., Rosemount, Que.	
Tsong, Thelma Kying-Pau	Med. 3	170 Mansfield St., Montreal	Lan. 0973
		Peking, China	
Tucker, Alfred Rea	Arts 1	348 Sherbrooke St. W., Montreal	Lan. 1567
		201 Dromore Ave., Winnipeg, Man.	
Tufteland, Lillian Marie,	Phys. Ed. 2	3429 St. Famille St., Montreal	Plat. 6807
		Taber, Alberta	
Turner, Alice Willard	Grad. Sch.	79 Columbia Ave., Westmount, Que.	West. 5670
Turner, Cecil H.	Med. 1	3437 Peel St., Montreal	Up. 2031W
		Meductic, York Co., N.B.	
Turner, Donald C.	Arts 1	424 Wood Ave., Westmount, Que.	West. 1787
Turner, George Edward	Arts 2	612 Wilson Ave., Montreal	
		655 Ouellette Ave., Windsor, Ont.	
Turner, Harold Alfred	Arts 2	3506 University St., Montreal	Up. 0290
		Appleton, Ont.	
Turner, James Gilbert	Med. 1	3437 Peel St., Montreal	Up. 2031W
		176 Charlotte St., Fredericton, N.B.	
Turner, Margaret G.	Arts 1	79 Columbia Ave., Westmount, Que.	West. 5670
Turtle, Harry Gilbert	Arts 2	3506 University St., Montreal	Up. 0290
		Shearstown, Nfld.	
Tutill, G. W. Douglas	Med. 1 & Arts P.	1450 McGill College Ave., Montreal	Lan. 9791
		Merritt, B.C.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Tweedie, Beatrice H.	Arts 4	Royal Victoria College, Montreal	Plat. 0078
		4 Rockledge Drive, Stamford, Conn.	
Ullock, Josephine McM	Arts P.	522 Oxford Ave., Montreal	
Ulrichsen, Barbara A.	Arts 1	165 Cote des Neiges Rd., Montreal.	
		452 Pomeroy Ave., Pittsfield, Mass.	
Unwin, Dorothy Marion	Arts 1	78 Maple Ave., St. Lambert, Que.	St. Lam. 656W
Urquhart, Fred. S.	Arts 2	265 Querbes Ave., Outremont, Que.	At. 2215
Valentine, Hugh Allen I.	Arch. 5	3437 Peel St., Montreal	Up. 2031W
		330 Fountain St., Philadelphia, Pa.	
Valiquette, Wilfred J.	Ap. Sci. 1	3479 Shuter St., Montreal	Plat. 5410
		284 Laurier Ave. E., Ottawa, Ont.	
Vallance, Hugh James	Arts 1	12 Gladstone Ave., Westmount, Que.	West. 2102
Van Buskirk, Anna F.	Phys. Ed. 2	3466 University St., Montreal	Up. 3369
		Dartmouth, N.S.	
Van Vliet, Jonathan E.	Arts 1	348 Sherbrooke St. W., Montreal	Lan. 1567
		Dewittville, Que.	
Van Wyck, Norman	Arts 4 & Med. 1.	621 Belmont Ave., Westmount, Que.	West. 2808
Vaughan, Robert John	Com. 2	91 Westmount Blvd., Westmount, Que.	West. 3869
Veit, Edith Jane	Arts 1	Royal Victoria College Annex, Montreal	Up. 2534
		Sayabec, Que	
Veitch, William John	Com. 1	445 Strathcona Ave., Westmount, Que.	West. 0389
Viberg, Ernest F.	Ap. Sci. 3	1195 Cote St. Antoine Rd., Montreal.	Wal. 3735
Victor, William	Com. 1	3863 St. Lawrence Blvd., Montreal.	Plat. 1591
Viger, Roland J.	Med. 1	464 Sherbrooke St. W., Montreal	Lan. 9632
		16 Dartmouth St., Lawrence, Mass.	
Villiaume, Lambert E.	Med. 1	464 Sherbrooke St. W., Montreal	Lan. 9632
		508 South Park Ave., Buffalo, N.Y..	
Vincent, Paul Emile A.	Ap. Sci. 1	6899 St. Denis St., Montreal	Cal. 7352
Vineberg, Arthur M.	Med. 5	4333 Westmount Ave., Westmount, Que.	West. 0033
Violette, Roger Norman	Med. 1	2580 Ontario St., Montreal	Clair. 6177W
Vipond, William C.	Arts 1	664 Wiseman Ave., Outremont, Que.	At. 3240
Vogin, Maurice	Arts 1	4074 Lafontaine Park, Montreal	Bel. 8486M
Von Haeseler, Paul	Med. 2	328 Sherbrooke St. W., Montreal	Lan. 7141
		86 Haven Ave., New York, N.Y.	
Vosberg, Clarence	Arts 2	469 Lansdowne Ave., Westmount, Que.	West. 0302
Voss, Harry Edward	Med. 4	40 Lorne Ave., Montreal	Plat. 5056
		69 Spring St., Kingston, N.Y.	
Wade, Arthur B.	Arts P. & Med. 1.	3506 University St., Montreal	Up. 0290
		Renfrew, Ont.	
Wainer, Louis	Arts 3	4531 Esplanade Ave., Montreal	Bel. 6344
Wainman, Charles George G.	Com. 2	775 Sherbrooke St. W., Montreal	Up. 2143
		Balgownie, Vernon, B.C.	
Waldie, Frederick M.	Ap. Sci. 3	3454 Peel St., Montreal	Up. 6788
		Nelson, B.C.	
Walker, Arthur Eugene	Arts 2	64 Victoria St., Montreal	
		133 So. Allen St., Albany, N.Y.	
Walker, Joseph A. L.	Med. 2	3549 Jeanne Mance St., Montreal	Plat. 3600
		130 Askin Blvd., Sandwich, Ont.	
Walker, William H.	Dent. 4	107 Metcalfe St., Montreal	Lan. 8554
		Chatham, N.Y.	
Wall, Bernard W.	Grad. Sch.	2099A Hutchison St., Montreal	Cres. 9055
Wallace, Keith B.	Ap. Sci. 2	195 Belgrave Ave., Montreal	Wal. 6589
		Hamiota, Man.	
Wallack, Samuel	Com. 2	1978 Hutchison St., Montreal	Cres. 6714
Waller, Clara	Soc. Workers.	59 Sanford Ave., St. Lambert, Que.	St. Lam. 751
Wallingford, Felix M.	Arts 2	3567 Durocher St., Montreal	Plat. 1609
		10 Monkland Ave., Ottawa, Ont.	
Walsh, Margaret G.	Arts 1	14 Holyrood Ave., Outremont, Que.	
Ward, Dorothy Nesbitt	Arts P.	112 Arlington Ave., Westmount, Que.	West. 4060
Wardleworth, Eleanor S.	Arts 4	168 Cote St. Antoine Rd., Westmount, Que.	West. 2018

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Warren, Catherine Louise	Arts 4	1420 Tower Avenue, Montreal	Up. 3917
Warren, Herbert Hamilton	Com. 2	1385 Bernard Ave., Outremont, Que.	At. 4525
Warson, Sam. Russel	Arts 2	3490 Shuter St., Montreal	Plat. 4850
		188 Prince Edward St., St. John, N.B.	
Wasserman, John Jacob	Arts 3	4016 City Hall Ave., Montreal	Lan. 8917
Waters, E. H.	Theology	3473 University St., Montreal	Up. 1475
		Breeze Side, Porthleven, Cornwall, Eng.	
Watier, Arthur Hubert	Arts 1	4034 Dorchester St. W., Westmount, Que.	West. 4433
Watson, J. T.	Theology	3485 McTavish St., Montreal	Up. 9130
		Falkirk, Scotland.	
Watt, Alastair McA	Arts 2	125 Bayle St., Montreal	Up. 0806J
Waugh, Albert E.	Arts 1	4009 Verdun Ave., Verdun, Que.	York 4617J
Webb, Dwight	Arts 1	3506 University St., Montreal	Up. 0290
		Cardinal, Ont.	
Weber, W. Jack	Arts 4	3656 City Hall Ave., Montreal	Lan. 0004
Webster, Gordon M.	Law 3	233 Westmount Blvd., Westmount, Que.	West. 1722
Webster, Helen E.	Arts 3	57 Hallowell St., Westmount, Que.	West. 4592
Webster, Lorne S.	Com. 2	7 Edgehill Rd., Westmount, Que.	West. 4110
Webster, Reginald H.	Arts 1	7 Edgehill Rd., Westmount, Que.	West. 4110
Weidman, William H.	Med. 2	65 Bishop St., Montreal	Up. 9383
		245 Cattell Ave., Collingswood, N.J.	
Weinberg, Marvin S.	Com. 4	239 Wilson Ave., Montreal	Wal. 1218
Weiner, Florence	Arts 1	463 Old Orchard Ave., Montreal	Wal. 2288J
Weiner, Hyman	Arts 3	4396 St. Dominique St., Montreal	Bel. 4551W
Weiner, Sydney	Arts 3	463 Old Orchard Ave., Montreal	Wal. 2288J
Weingold, Martin B.	Arts 1	2026 McGill College Ave., Montreal	Lan. 8610
		1322 Carroll St., Brooklyn, N.Y.	
Weinstein, Anna P.	Arts 3	399 Durocher Ave., Outremont, Que.	Cres. 0996
Weinstein, Israel R.	Com. 3	70 Mt. Royal Ave. E., Montreal	Bel. 1645M
Weinstein, Oscar	Com. 1	399 Durocher Ave., Outremont, Que.	Cres. 0996
Weintraub, David	Med. 2	724 Sherbrooke St. W., Montreal	Up. 4250
		11 Orr Square, Revere, Mass.	
Weir, Wm. Desmond	Arts 1	4343 Westmount Ave., Westmount, Que.	West. 2456
Weiss, Herbert S.	Med. 1	724 Sherbrooke St. W., Montreal	Up. 4250
		748 Kelly St., New York, N.Y.	
Weiss, Selig Oscar	Com. 2	5345 Jeanne Mance St., Montreal	Cres. 7839
Weldon, Frederick E.	Ap. Sci. 3	719 Drummond Court Apts., Montreal	Up. 2276
Welling, Inez E.	Grad. Nurses	Montreal General Hospital, Montreal	Lan. 4101
		Shediac Cape, N.B.	
Wener, Seymour	Com. 1	341 Oxford Ave., Montreal	Wal. 4357
West, William G.	Arts 4	3522 Delorimier Ave., Montreal	Amh. 3685
Wexler, Lillian E.	Arts 1	435 Lansdowne Ave., Westmount, Que.	West. 1219
Whalen, James Arthur L.	Com. 2	2015 University St., Montreal	Lan. 0041
		Port Arthur, Ont.	
Wheatley, Eric E.	Ap. Sci. 2 & Arts P.	657 Belmont Ave., Westmount, Que.	West. 0780
Wheeler, Clifford V.	Arts 1	254 Vendome Ave., Montreal	Wal. 6126
Wheeler, John R.	Theology	3506 University St., Montreal	Up. 0290
		Knowlton, Que.	
White, Alex F.	Arts P.	3506 University St., Montreal	Up. 9130
		"Homere House," Worthington Rd., Basingstoke, Hants, Eng.	
White, Charles Alex.	Law 1	825 University St., Montreal	Plat. 3464
		147 Victoria St., Sherbrooke, Que.	
White, Franklyn Everheart	Arts 1	630 Carlton Ave., Westmount, Que.	West. 5338
White, Jean Florence	Arts 1	312 Brock Ave., Montreal West. Que.	Wal. 0851
White, Marion E.sie	Arts 2	3454 University St., Montreal	Up. 2534
		Grand Falls, N.B.	
White, Thomas Nash	Grad. Sch	100 Easton Ave., Montreal West, Que.	
Whitehead, Wallace Irwin	Dent. 3	3454 Peel St., Montreal	Up. 6788
		287 Clifton Ave., Montreal	
Whitley, Ruth Mary	Arts 3	Ste. Anne de Bellevue, Que.	Ste. Annes 333
Whitmore, Norman E.	Com. 1	3581 University St., Montreal	
		2208 Smith St., Regina, Sask.	

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Whitworth, John Ewing	Med. 5	42 St. Mark St., Montreal 2911 Ontario St., Vancouver, B.C.	
Wight, Willis E. F.	Com. 3	2345 Moreau St., Montreal	Clair. 0010
Wilanski, Lillian F.	Arts 2	806 Cote St. Antoine Rd., Montreal.	Wal. 5781
Wilcock, George F.	Arts 3	52, 36th Avenue, Lachine	Lach. 485
Wilcock, James T.	Ap. Sci. 1	52, 36th Avenue, Lachine	Lach. 485
Wilkey, John Richard	Med. 2	320 Prince Arthur St. W., Montreal. 186 Elmwood Ave., London, Ont.	Plat. 0761
Wilkinson, F. Arthur H.	Arts 2	3506 University St., Montreal Box 20, Perth, Ont.	Up. 0290
Williams, Moses	Theology	3506 University St., Montreal Bay Bull's Arm, Nfld.	Up. 0290
Williams, Richard L.	Ap. Sci. 2	159, 24th Ave., Lachine, Que.	Lach. 760F
Williamson, John T.	Arts 4	1245 St. Mark St., Montreal	Up. 4086
Willing, Edgar Forbes.	Arts 3	5402 Park Ave., Montreal	At. 2656W
Willis, Montague C.	Arts 1	382 Olivier Ave., Westmount, Que.	West. 0228
Wilson, Evelyn	Grad. Sch.	450 Grosvenor Ave., Westmount, Que.	West. 1804
Wilson, Frank Howard	Arts 1	26 MacGregor St., Montreal	Up. 2419
Wilson, Hazel W.	Arts 4	Royal Victoria College, Montreal. 275 Dromore Ave., Winnipeg, Man.	Plat. 0078
Wilson, Jean E.	Arts 4	617 Belmont Ave., Westmount, Que.	West. 3430
Wilson, Jessie E. M.	Arts 3	450 Grosvenor Ave., Westmount, Que.	West. 1804
Wilson, John H.	Com. 1	1466 Drummond St., Montreal	Up. 1883
Wilson, Milton C.	Med. 5	39 Lorne Ave., Montreal 701 Baker St., Baltimore, Md.	Plat. 5833
Wilson, Wallace L.	Arts 1	3520 University St. Montreal Brownsburg, Que	
Wilson, William R.	Grad. Sch.	3506 University St., Montreal Athelstan, Que.	Up. 0290
Winn, Albert R.	Dent. 4	32 Springfield Ave., Westmount, Que.	West. 0292
Winsor, Lester C.	Arts 1	3609 University St., Montreal Laurens, Otsego Co., N.Y.	Plat. 3464
Winter, William H.	Med. 1	548 Sherbrooke St. W., Montreal Foul Bay Road, Victoria, B.C.	Up. 5942
Wise, Peter S.	Com. 3	4539 Park Ave., Montreal	Bel. 8405W
Wiseberg, Max	Med. 4	3670 Colonial Ave., Montreal	Plat. 6637
Wiselberg, Dorothy	Med. 3	3 Holton Ave., Westmount, Que.	West. 5614W
Wiseman, Irene	Arts P	4351 Esplanade Ave., Montreal	
Witter, Howard B.	Med. 2	6 Hutchison St., Montreal 52 Elmwood St., Millbury, Mass.	Plat. 1649
Wolever, John K.	Arch 3	536 Prince Albert Ave., Westmount, Que.	West. 3006
Wolf, Israel J.	Med. 5	2001 Union Ave., Montreal 2 Park Rd., Patterson, N.J.	Plat. 2332
Wolfe, Gerald	Ap. Sci. 1	309 Marlowe Ave., Montreal	Wal. 3939
Wolff, C. E. F.	Theology	3473 University St., Montreal 17 Palace Sq., Upper Norwood, London, S.E. 19, Eng.	Up. 1475
Wolff, Sarah F.	Arts 2	442 Argyle Ave., Westmount, Que.	West. 8372
Wolfson, Charles	Law 2	4457 St. Urbain St., Montreal	Bel. 4615
Wolstein, Edward	Arts 4	3435 Shuter St., Montreal 412 Nelson St., Ottawa, Ont.	Plat. 2648
Wood, Helen E.	Arts 1	4485 Sherbrooke St., Westmount, Que.	West. 0440
Wood, Stuart B.	Com. 3	3581 University St , Montreal Alameda 6, Miraflores, Peru, S.A.	Plat. 6979
Woodley, Elsie C.	Arts 2	216 Girouard Ave., Montreal	Wal. 4277W
Woodruff, Richard S.	Med. 5	320 Prince Arthur St., Montreal 19 Bartlett Ave., Pittsfield, Mass.	Plat. 0761
Woodwark, Kenneth H.	Arts. 2	3506 University St., Montreal Ste. Rose, Que.	Up. 0290
Woolley Eric.	Com. 2	87 Minto Ave., Montreal	Wal. 3401W
Woolley, Lawrence G.	Arts 4	349 Melrose Ave., Montreal	Wal. 0936
Wortley, Elinor R.	Arts 1	Royal Victoria College Annex Montreal 122 Argyle Rd., Walkerville, Ont.	Up. 2534
Wright, Aylesworth R.	Com. 3	466 Sherbrooke St. W., Montreal Wallaceburg, Ont.	Lan. 5778

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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
Wright, Charles B.	Med. 4	3569 Durocher St., Montreal R.R. No. 3, Moncton, N.B.	Plat. 6815
Wright, Edward N.	Med. 4	823 University St., Montreal 60 Crescent Rd., Toronto, Ont.	Plat. 0354
Wright, E. Arthur	Theology	3485 McTavish St., Montreal Paisley, Scotland	Up. 9130
Wright, James G.	Ap. Sci. 4	415 Victoria Ave., Westmount, Que.	West. 3632
Wright, John P.	Com. 1	4400 Western Ave., Westmount, Que.	West. 8593
Wright, John A.	Med. 5	681 University St., Montreal 565 West 185th St., New York, N.Y.	Up. 2423
Wurtele, Campbell	Ap. Sci. 2	St. Therese de Blainville, Que.	
Wyers, Geraldine R.	Arts 4	30 Sunnyside Ave., Westmount, Que.	West. 0373
Wykes, Eric R.	Ap. Sci. 2	864 Church Ave., Verdun, Que.	Main 5475
Wylde, Edmund W.	Med. 2	1487 Mountain St., Montreal 1613, 46th St., W., Seattle, Wash.	Up. 9655
Wyman, Harold R.	Grad. Sch.	1427 Metcalfe St., Montreal Yarmouth, N.S.	
Wyse, Lyell S.	Ap. Sci. 4	Apt. F., 979 Tupper St., Montreal 73 Highfield St., Moncton, N.B.	Up. 8377W
Yeates, Evelyn	Arts 2	14 Willow Ave., Westmount, Que.	West. 1439
Yelin, Gabriel	Arts 1	3507 St. Famille St., Montreal	Plat. 1187
Yelin, Moses S.	Arts 4	3507 St. Famille St., Montreal	Plat. 1187
Yeomans, Richard H.	Ap. Sci. 2	55 Wolseley Ave., Montreal West, Que.	Wal. 0592W
York, Florence J.	Arts 2	541 Rockland Ave., Outremont, Que.	At. 0429
Young, Charles H.	Grad. Sch.	3506 University St., Montreal Box R., North Sydney, N.S.	Up. 0290
Young, Edith G.	Grad. Nurses	221 Milton St., Montreal Carleton Place, Ont.	Plat. 1806
Young, Harold G.	Arts 1	3485 McTavish St., Montreal Maryland, Que.	Up. 9130
Young, John K. C.	Com. 2	3647 University St., Montreal 102 Cambridge St., Ottawa, Ont.	Plat. 5070
Young, John M.	Grad. Sch.	607 Earnscliffe Ave., Montreal	
Young, Loyola C.	Ap. Sci. 3	78 Durocher St., Montreal 345 Bentinck St., Sydney, N.S.	Plat. 2642
Yuile, Margaret	Arts P.	70 Ontario Ave., Montreal	Up. 2182
Zadra, Modesto	Med. 4	219 Hutchison St., Montreal New Denver, B.C.	Plat. 0588
Zaitlin, A. H.	Arts 3	6830 St. Lawrence Blvd., Montreal	Cres. 7446
Zaltsman, Rose M.	Arts 3	85 Mt. Royal Ave. W., Apt. 7, Montreal	Bel. 2159F
Zaritsky, Alex.	Med. 4	4448A De Bullion St., Montreal Ste. Sophie, Terrebonne Co., Que.	
Zimand, Chas. James	Arts 4	5124 Mance St., Montreal	Cres. 1615
Zimmerman, Clark B.	Med. 1	3555 University St., Montreal 3414 Elwood Ave., Richmond, Va.	Plat. 0253
Zlotnik, Mortimer	Arts 2	5353 Park Ave., Montreal	Cres. 3553
Zoll, Samuel H.	Med. 3	302A Prince Arthur St., Montreal 10 Reynolds Ave., Everett, Mass.	Plat. 3573
Zuck, Zelda J.	Arts 2	140 Prince Arthur St. E., Montreal	Lan. 5467
Zuker, Esther	Arts 2	3962 St. Urbain St., Montreal	Bel. 7224W

SUMMARY OF STUDENTS IN ATTENDANCE AT THE UNIVERSITY

Session 1927-28

Arts	1,104
School of Commerce	215
Applied Science	311
Medicine	460
Department of Pharmacy	38
Dentistry	36
Law	65
Agriculture	136
Music	188
School for Social Workers	34
School of Physical Education	49
School of Household Science	75
School for Graduate Nurses	27
Faculty of Graduate Studies and Research	179
Library School	28
	2,945
Less registered in more than one Faculty	28
Grand total	2,917

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